

## Maintenance Work Order

**Work Order:** 86872  
**Priority:** Normal  
**Due Date:**

Scheduling:

**Status:** Closed  
**Status Date:** 3/12/2026

Mechanic Name	Schedule Date	Work Complete?
Michael G Laymance	8/10/2025	<input checked="" type="checkbox"/>
Chase A. Rose	8/14/2025	<input checked="" type="checkbox"/>
Kyle R. Gerke	8/18/2025	<input checked="" type="checkbox"/>
Ronnie L Kelso	10/1/2025	<input checked="" type="checkbox"/>
Colton L Webb	10/13/2025	<input checked="" type="checkbox"/>
John M. Pohlman	2/23/2026	<input checked="" type="checkbox"/>

Equipment ID: 22-026	Description: Cat 963D Track Loader
Work Order Job: 24-R137	VIN #
Current Job: 24-R137	Serial # LCS02190
Current Location: 24-R137	License Plate #
Equipment Foreman:	Make: Cat
Work Order Foreman:	Model: 963D
	Carrier Name:

Meter Reading: Hours: 13650 on 9/3/2025 by Kuhse, Kraig L.  
 Odometer: on by  
 Last Hour Service (Lifetime): 13501 (13501) on 7/11/2025  
 Last Odometer Service (Lifetime): on

**Problem Description:** Prep for Auction. Bucket holes need cleaned out. Replace fuse panel for blower motor resistor and fuse. Replace fuel filters. RH hub/segments holes are egged out. Track pad bent. Door release cable not releasing door. LH hand rail on cab is bent.

## Maintenance Work Order

**Work Order:** 86872  
**Priority:** Normal  
**Due Date:**

**Labor Items:**

Work Code	Item Code	ST	OT	DT	
Diagnose	17 - Undercarriage:Se gments		3.00	0.00	0.00
Diagnose	28 - Air Conditioning / Heating System:Control, Cable, Switch, Relay, Wiring		8.00	0.00	0.00
Install	17 - Undercarriage:Ste el Track		11.75	0.00	0.00
Install	27 - Cab / Body:Decals - Elder / Unit #		9.00	0.00	0.00
Parts Delivery or Pickup	17 - Undercarriage:Se gments		1.00	0.00	0.00
Perform	10 - Inspection / Cleaning:Repair Inspection		6.00	0.00	0.00
Prep	10 - Inspection / Cleaning:Clean / Prep for Auction		1.00	0.00	0.00
Remove	27 - Cab / Body:Decals - Elder / Unit #		8.50	0.00	0.00
Repair	17 - Undercarriage:Se gments		20.00	0.00	0.00
Repair	25 - Attachments:Buc ket		1.00	0.00	0.00
Repair	27 - Cab / Body:Belly Pan / All Guards		4.50	0.00	0.00
Replace	15 - Fuel System:Fuel Filter		1.50	0.00	0.00
Replace	27 - Cab / Body:Grab Handle / Hand Rail		3.00	0.00	0.00

**Parts List:**

Part Num	Name	UOM	Qty Used	
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# Maintenance Work Order

**Work Order:** 86872  
**Priority:** Normal  
**Due Date:**

Cost Ledger:

Type	Ref Num	Description	Estimated Cost
Parts		Invoice #: CM000291022A, Item Description: CR fuse block, breaker as, Vendor Name: Ziegler, Inc.	\$0.00
Parts		Invoice #: IN002031476, Item Description: Segment, bolt, nut, Vendor Name: Ziegler, Inc.	\$0.00
Parts		Invoice #: CM000287572A, Item Description: CR grid, seal, housing, Vendor Name: Ziegler, Inc.	\$0.00
Parts		Invoice #: IN002108551, Item Description: Segment, bolt, nut, Vendor Name: Ziegler, Inc.	\$0.00
Parts		Invoice #: IN002309815, Item Description: Hard washer, bolt, Vendor Name: Ziegler, Inc.	\$0.00
Parts		Invoice #: IN002108556, Item Description: Track bolt, Vendor Name: Ziegler, Inc.	\$0.00
Parts		Invoice #: IN002311830, Item Description: Handle Lh, Vendor Name: Ziegler, Inc.	\$0.00
Parts		Invoice #: IN002026329, Item Description: Fuse block, breaker as, Vendor Name: Ziegler, Inc.	\$0.00
Parts		Invoice #: IN002103040, Item Description: Grid, seal, stud, housing, Vendor Name: Ziegler, Inc.	\$0.00
Parts		Invoice #: CM000292014B, Item Description: CR track bolt, Vendor Name: Ziegler, Inc.	\$0.00

Reconciled Purchases:

Part Num	Description	Invoice #	Ref #	Qty Used
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## Maintenance Work Order

**Work Order:** 86872  
**Priority:** Normal  
**Due Date:**

### Notes:

3/3/2026	Colton L Webb	3/2/26 - Installed the bottom belly pans, and the front nose piece. Removed the decals that wouldn't be arriving soon enough.
3/2/2026	Colton L Webb	2/27/26 - Brought the machine back into the shop, and then began to remove the decals. Once they were all removed we cleaned up the paint and then installed the new decals. Installed the new grab handle on the LH side.
2/25/2026	Colton L Webb	2/24/26 - J Mac and I finished removing the decals on the machine and then grinded off the Elder and unit numbers from the bucket and forks. We then painted the grinded spots. The belly pans, and nose guard had to be removed so that the machine can be washed thoroughly. We then took the machine to the wash bay and lifted the cab.
2/24/2026	Colton L Webb	2/23/26 - J Mac and I brought the machine up so that we could begin getting it ready for auction. The LH handrail on the loader arm had a stripped out bolt so I worked on getting it removed and then tapped it back. Installed the handrail back on and then removed the LH handrail from the cab, due to it being bent. Had to dig to find a new handrail, but found and ordered a new one. Began to remove the decals.
10/14/2025	Colton L Webb	10/12/25 - Helped Ron
10/14/2025	Ronnie L Kelso	10/13/25 Finished welding up the hub on the right side so the segment bolts would not move around in the holes. Installed the two new segments on the right side. Finished installing new segments on the left side. Torqued hardware to spec. which was 130 ft lbs plus 1/3 turn. Pushed tracks into the shop, cleaned master links, tapped out threaded holes. Installed tracks onto frames. Installed new master link hardware, torqued to spec which was 370 ft lbs. plus 180 degrees. Adjusted track sag, installed covers. Moved machine out to west lot.
10/10/2025	Ronnie L Kelso	10/9/25 Replaced the latches for the cab fresh filter latches.
10/6/2025	Ronnie L Kelso	10-3-25 Looked over A/C blower function. Removed covers to access evaporator, it needs to be cleaned out. Fuse block has wear where the circuit breaker for the A/C is located causing intermittent power issues. Looked up parts and pricing for repairs.
10/2/2025	Ronnie L Kelso	10/1/25 Drove machine up to wash pit, dug out rocks and mud out from final drives. Brought machine into shop placed on stands. Drained out right side final to check for metal in oil. There was a little bit of dust on the magnet. Oil looked clean other than that. Split the right track, the track is worn out has excessive play in the bushings. The holes where the sprocket segments bolt on are out of round. The segments on the left side are about an 1/8" wide. The travel motors are both starting to seep oil where the motor head bolts on.
9/3/2025	Kyle R. Gerke	9-2-25 Unit broke the new segments again around the mounting bolts checked track rails and had alot of play. Unit needs to come to shop fro repairs. Got machine up out of ditch and by road to get loaded.
8/22/2025	Chase A. Rose	8/20/25 - Was notified the unit threw a fuel restriction fault. Drove to job site and replaced fuel filters and verified no active codes.
8/19/2025	Kyle R. Gerke	Unit sheared bolts fro 2 track segments in bottom of ditch. Removed the cover and was able to move machine enough to segments un wedge and get machine out of ditch. Looked up parts and got them ordered. Went to Ziegler and picked up parts. Came back and cleaned up bolt holes and installed new segments. Removed other segments on final and installed new ones with new hardware. Put cover back on and test ran unit.
8/15/2025	Chase A. Rose	8/15/25 - Was notified the relay keeps blowing for the blower motor. Drove over to unit and the relay was not blown. Wiggled relay around and was able to fix the variable control issue for the blower motor. Since the holder is not keeping the relay secured I ordered a new fuse block along with new relay.
8/12/2025	Michael G Laymance	Drove to job and cleaned out bucket teeth.

# Maintenance Work Order

**Work Order:** 86815  
**Priority:** Normal  
**Due Date:**

**Scheduling:**

**Status:** Closed  
**Status Date:** 8/11/2025

Mechanic Name	Schedule Date	Work Complete?
Chase A. Rose	8/9/2025	<input checked="" type="checkbox"/>

Equipment ID: 22-026	Description: Cat 963D Track Loader
Work Order Job: 24-R137	VIN #
Current Job: 24-R137	Serial # LCS02190
Current Location: 24-R137	License Plate #
Equipment Foreman:	Make: Cat
Work Order Foreman:	Model: 963D
	Carrier Name:

Meter Reading: Hours: 13544 on 8/8/2025 by Kuhse, Kraig L.  
 Odometer: on by  
 Last Hour Service (Lifetime): 13501 (13501) on 7/11/2025  
 Last Odometer Service (Lifetime): on

**Problem Description:** Replace blower motor, resistor and control.

**Labor Items:**

Work Code	Item Code	ST	OT	DT	
Parts Delivery or Pickup	28 - Air Conditioning / Heating System:Blower Fan / Motor		1.50	0.00	0.00
Replace	28 - Air Conditioning / Heating System:Blower Fan / Motor		1.00	0.00	0.00
Replace	28 - Air Conditioning / Heating System:Control, Cable, Switch, Relay, Wiring		1.00	0.00	0.00

**Parts List:**

Part Num	Name	UOM	Qty Used	
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**Cost Ledger:**

Type	Ref Num	Description	Estimated Cost
Parts		Invoice #: IN002021251, Item Description: Blower As, Resistor As, Vendor Name: Ziegler, Inc.	\$0.00
Parts		Invoice #: IN002021252, Item Description: Control Pane, Vendor Name: Ziegler, Inc.	\$0.00

# Maintenance Work Order

**Work Order:** 86815  
**Priority:** Normal  
**Due Date:**

Reconciled Purchases:

Part Num	Description	Invoice #	Ref #	Qty Used	
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Notes:

8/9/2025	Chase A. Rose	8/9/25 - Was notified that the fan would only go one speed. Looked up parts and ordered. Found out that the controller had an update so I replaced control with updated part number but unit still had same issue. Replaced the blower motor and since the resistor sits right above blower motor I replaced the resistor as well. Fired unit up and made sure blower was blowing at all different speeds and blowing cold. Returned unit to service.			
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# Maintenance Work Order

**Work Order:** 86596  
**Priority:** Normal  
**Due Date:**

Scheduling:

**Status:** Closed  
**Status Date:** 8/5/2025

Mechanic Name	Schedule Date	Work Complete?
Michael G Laymance	7/28/2025	<input checked="" type="checkbox"/>

Equipment ID: 22-026	Description: Cat 963D Track Loader
Work Order Job: 24-R137	VIN #
Current Job: 24-R137	Serial # LCS02190
Current Location: 24-R137	License Plate #
Equipment Foreman:	Make: Cat
Work Order Foreman:	Model: 963D
	Carrier Name:

Meter Reading: Hours: 13538 on 8/4/2025 by Kuhse, Kraig L.  
 Odometer: on by  
 Last Hour Service (Lifetime): 13501 (13501) on 7/11/2025  
 Last Odometer Service (Lifetime): on

Problem Description: Fault code for joystick FNR sensor.

Labor Items:

Work Code	Item Code	ST	OT	DT	
Calibrate	12 - Transmission / Power Train: Transmission Control		1.00	0.00	0.00
Diagnose	12 - Transmission / Power Train: Transmission Control		3.00	0.00	0.00
Parts Delivery or Pickup	12 - Transmission / Power Train: Transmission Control		1.50	0.00	0.00
Replace	12 - Transmission / Power Train: Transmission Control		2.50	0.00	0.00

Parts List:

Part Num	Name	UOM	Qty Used	
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# Maintenance Work Order

**Work Order:** 86596  
**Priority:** Normal  
**Due Date:**

Cost Ledger:

Type	Ref Num	Description	Estimated Cost
Parts		Invoice #: IN002009205, Item Description: Base as-joys, Vendor Name: Ziegler, Inc.	\$0.00

Reconciled Purchases:

Part Num	Description	Invoice #	Ref #	Qty Used
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Notes:

- 7/31/2025 Michael G Laymance Went to Ziegler and picked up parts. Drove to job and replaced joystick and calibrated joystick.
- 7/29/2025 Michael G Laymance Drove to job and hooked up computer. Had active code 1700-3 and 1699-3. Both for joystick hydrostat. Called CAT to verify that programming is correct. Started trouble shooting and found joystick must be shorted. Looked up parts and ordered.

# Maintenance Work Order

**Work Order:** 86248  
**Priority:** Normal  
**Due Date:**

Scheduling:

**Status:** Closed  
**Status Date:** 7/21/2025

Mechanic Name	Schedule Date	Work Complete?
Chase A. Rose	7/11/2025	<input checked="" type="checkbox"/>

Equipment ID: 22-026	Description: Cat 963D Track Loader
Work Order Job: 25-G106	VIN #
Current Job: 24-R137	Serial # LCS02190
Current Location: 24-R137	License Plate #
Equipment Foreman:	Make: Cat
Work Order Foreman:	Model: 963D
	Carrier Name:

Meter Reading: Hours: 13513 on 7/16/2025 by Williams, Trevor L.  
 Odometer: on by  
 Last Hour Service (Lifetime): 13501 (13501) on 7/11/2025  
 Last Odometer Service (Lifetime): on

**Problem Description:** Grease quick coupler. Clean out the bucket locking pin bores. Verify all idler pivots are getting greased. Replace missing hardware in fan frame. Replace missing hose clamp on fan frame.

Labor Items:

Work Code	Item Code	ST	OT	DT	
Clean	25 - Attachments:Bucket		0.50	0.00	0.00
Grease	17 - Undercarriage:Idler Linkage and Pivots		2.00	0.00	0.00
Grease	25 - Attachments:Quick Attach for Bucket / Attachment		0.50	0.00	0.00
Secure	14 - Hydraulic System:Hydraulic Fittings / Lines		0.50	0.00	0.00
Secure	19 - Cooling System:Engine Fan and Shroud		0.50	0.00	0.00

Parts List:

Part Num	Name	UOM	Qty Used	
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Cost Ledger:

Type	Ref Num	Description	Estimated Cost
Parts		Invoice #: IN001993282, Item Description: Bolt, hard washer, clip, Vendor Name: Ziegler, Inc.	\$0.00

# Maintenance Work Order

**Work Order:** 86248  
**Priority:** Normal  
**Due Date:**

Reconciled Purchases:

Part Num	Description	Invoice #	Ref #	Qty Used	
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Notes:

7/16/2025	Chase A. Rose	7/16/25 - Drove to job site and installed new clamp on the hydraulic line for the fan drive.			
7/15/2025	Chase A. Rose	7/15/25 - Drove to unit and found missing mounting hardware for the fan. Installed new hardware and also found a missing hose clamp on the fan guard. Looked up parts and ordered. Verified all idler pivots were getting greased and found the RH inside idler pivot has never been greased and was seized. Removed cover and had to use porta-power to penetrate bore. All idler pivots are now taking grease properly.			
7/12/2025	Chase A. Rose	7/12/25 - Drove to job site but job site was closed down. Will have to come back another day.			
7/11/2025	Chase A. Rose	7/11/25 - Drove over to unit and had operator disconnect from the bucket. He was having troubles disconnecting but finally was able to break free. Inspected the quick attach locking pins and greased. had operator lock and unlock several times and found nothing out of the ordinary. Inspected the locking pin bores on the bucket and found both bores were packed. Cleaned out both bores and had operator connect and disconnect from the bucket multiple times. The quick connect was locking and unlocking much easier.			

# Maintenance Work Order

**Work Order:** 86050  
**Priority:** Normal  
**Due Date:**

**Scheduling:**

**Status:** Closed  
**Status Date:** 7/14/2025

Mechanic Name	Schedule Date	Work Complete?
Christopher J. Murano	7/1/2025	<input checked="" type="checkbox"/>
John M. Pohlman	7/1/2025	<input checked="" type="checkbox"/>

Equipment ID: 22-026	Description: Cat 963D Track Loader
Work Order Job: 24-U178	VIN #
Current Job: 24-R137	Serial # LCS02190
Current Location: 24-R137	License Plate #
Equipment Foreman:	Make: Cat
Work Order Foreman:	Model: 963D
	Carrier Name:

Meter Reading: Hours: 13501 on 7/11/2025 by Christopher J. Murano

Odometer: on by

Last Hour Service (Lifetime): 13501 (13501) on 7/11/2025

Last Odometer Service (Lifetime): on

Problem Description: PM4/2000hr.

**Labor Items:**

Work Code	Item Code	ST	OT	DT	
Perform	26 - PM / Service:PM's Hours:PM4/2,000		8.00	0.00	0.00

**Parts List:**

Part Num	Name	UOM	Qty Used	
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**Cost Ledger:**

Type	Ref Num	Description	Estimated Cost	
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**Reconciled Purchases:**

Part Num	Description	Invoice #	Ref #	Qty Used	
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# Maintenance Work Order

**Work Order:** 86050  
**Priority:** Normal  
**Due Date:**

**Notes:**

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7/11/2025 Christopher J. Murano segments worn to a point. Fan door missing bolts.

# Maintenance Work Order

**Work Order:** 84982  
**Priority:** Normal  
**Due Date:**

**Scheduling:**

**Status:** Closed  
**Status Date:** 6/26/2025

Mechanic Name	Schedule Date	Work Complete?
Kyle R. Gerke	5/13/2025	<input checked="" type="checkbox"/>
Tanner J. Rose	6/17/2025	<input checked="" type="checkbox"/>

Equipment ID: 22-026	Description: Cat 963D Track Loader
Work Order Job: 24-U526	VIN #
Current Job: 24-R137	Serial # LCS02190
Current Location: 24-R137	License Plate #
Equipment Foreman:	Make: Cat
Work Order Foreman:	Model: 963D
	Carrier Name:

Meter Reading: Hours: 13470 on 5/14/2025 by Lewis, Jeff  
 Odometer: on by  
 Last Hour Service (Lifetime): 13309 (13309) on 9/10/2024  
 Last Odometer Service (Lifetime): on

**Problem Description:** Install PL542v3. Fuel filter restriction

**Labor Items:**

Work Code	Item Code	ST	OT	DT	
Parts Delivery or Pickup	15 - Fuel System:Fuel Filter		1.00	0.00	0.00
Replace	15 - Fuel System:Fuel Filter		1.00	0.00	0.00

**Parts List:**

Part Num	Name	UOM	Qty Used	
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**Cost Ledger:**

Type	Ref Num	Description	Estimated Cost
Parts		Invoice #: IN001919254, Item Description: Filter as, Vendor Name: Ziegler, Inc.	\$0.00
Parts		Invoice #: IN001963917, Item Description: Harness as, elek kt, Vendor Name: Ziegler, Inc.	\$0.00

**Reconciled Purchases:**

Part Num	Description	Invoice #	Ref #	Qty Used	
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# Maintenance Work Order

**Work Order:** 84982  
**Priority:** Normal  
**Due Date:**

Notes:

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5/13/2025      Kyle R. Gerke      Looked up filter and got them ordered. Picked up filters. Removed all 3 fuel filters and replaced with new ones with new seals. Primed system and test ran codes went away.

# Maintenance Work Order

**Work Order:** 82682  
**Priority:** Normal  
**Due Date:**

**Scheduling:**

**Status:** Closed  
**Status Date:** 12/16/2024

Mechanic Name	Schedule Date	Work Complete?
Michael G Laymance	12/9/2024	<input checked="" type="checkbox"/>

Equipment ID: 22-026	Description: Cat 963D Track Loader
Work Order Job: 24-P397	VIN #
Current Job: 24-R137	Serial # LCS02190
Current Location: 24-R137	License Plate #
Equipment Foreman:	Make: Cat
Work Order Foreman:	Model: 963D
	Carrier Name:

Meter Reading: Hours: 13420 on 12/11/2024 by Kuhse, Kraig L.  
 Odometer: on by  
 Last Hour Service (Lifetime): 13309 (13309) on 9/10/2024  
 Last Odometer Service (Lifetime): on

**Problem Description:** Quick coupler codes.

**Labor Items:**

Work Code	Item Code	ST	OT	DT	
Repair	25 - Attachments:Bucket		1.50	0.00	0.00

**Parts List:**

Part Num	Name	UOM	Qty Used	
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**Cost Ledger:**

Type	Ref Num	Description	Estimated Cost	
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**Reconciled Purchases:**

Part Num	Description	Invoice #	Ref #	Qty Used	
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**Notes:**

12/9/2024 Michael G Laymance Drove to job and cleaned out bucket lock holes. Ran quick coupler a few no codes.

# Maintenance Work Order

**Work Order:** 81552  
**Priority:** Normal  
**Due Date:**

**Scheduling:**

**Status:** Closed  
**Status Date:** 10/14/2024

Mechanic Name	Schedule Date	Work Complete?
Michael G Laymance	10/11/2024	<input checked="" type="checkbox"/>

Equipment ID: 22-026	Description: Cat 963D Track Loader
Work Order Job: 24-T103	VIN #
Current Job: 24-R137	Serial # LCS02190
Current Location: 24-R137	License Plate #
Equipment Foreman:	Make: Cat
Work Order Foreman:	Model: 963D
	Carrier Name:

Meter Reading: Hours: 13391 on 10/14/2024 by Lewis, Jeff  
 Odometer: on by  
 Last Hour Service (Lifetime): 13309 (13309) on 9/10/2024  
 Last Odometer Service (Lifetime): on

Problem Description: Code for low quick attach pressure.

**Labor Items:**

Work Code	Item Code	ST	OT	DT	
Clean	25 - Attachments:Bucket		1.00	0.00	0.00

**Parts List:**

Part Num	Name	UOM	Qty Used	
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**Cost Ledger:**

Type	Ref Num	Description	Estimated Cost	
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**Reconciled Purchases:**

Part Num	Description	Invoice #	Ref #	Qty Used	
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**Notes:**

10/11/2024 Michael G Laymance Drove to job and cleaned out bucket holes. Checked operation no codes.

# Maintenance Work Order

**Work Order:** 80717  
**Priority:** Normal  
**Due Date:**

**Scheduling:**

**Status:** Closed  
**Status Date:** 9/16/2024

Mechanic Name	Schedule Date	Work Complete?
John M. Pohlman	8/30/2024	<input checked="" type="checkbox"/>

Equipment ID: 22-026	Description: Cat 963D Track Loader
Work Order Job: 24-M113	VIN #
Current Job: 24-R137	Serial # LCS02190
Current Location: 24-R137	License Plate #
Equipment Foreman:	Make: Cat
Work Order Foreman:	Model: 963D
	Carrier Name:

Meter Reading: Hours: 13309 on 9/10/2024 by John M. Pohlman  
 Odometer: on by  
 Last Hour Service (Lifetime): 13309 (13309) on 9/10/2024  
 Last Odometer Service (Lifetime): on

Problem Description: PM1/250hr.

**Labor Items:**

Work Code	Item Code	ST	OT	DT	
Perform	26 - PM / Service:PM's Hours:PM1/250		3.00	0.00	0.00

**Parts List:**

Part Num	Name	UOM	Qty Used	
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**Cost Ledger:**

Type	Ref Num	Description	Estimated Cost	
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**Reconciled Purchases:**

Part Num	Description	Invoice #	Ref #	Qty Used	
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**Notes:**

9/10/2024 John M. Pohlman Done and washed at the Copper Creek Borrow.

# Maintenance Work Order

**Work Order:** 77947  
**Priority:** Normal  
**Due Date:**

Scheduling:

**Status:** Closed  
**Status Date:** 5/9/2024

Mechanic Name	Schedule Date	Work Complete?
John J. Lauber	3/26/2024	<input checked="" type="checkbox"/>
Chase A. Rose	3/25/2024	<input checked="" type="checkbox"/>
Wade J. Smith	3/26/2024	<input checked="" type="checkbox"/>
Ronnie L Kelso	3/27/2024	<input checked="" type="checkbox"/>
John M. Pohlman	4/1/2024	<input checked="" type="checkbox"/>

Equipment ID: 22-026      Description: Cat 963D Track Loader  
Work Order Job: 23-B261      VIN #  
Current Job: 24-R137      Serial # LCS02190  
Current Location: 24-R137      License Plate #  
Equipment Foreman:      Make: Cat  
Work Order Foreman:      Model: 963D  
Carrier Name:

Meter Reading:      Hours: 13116      on 1/2/2024      by Kuhse, Kraig L.  
Odometer:      on      by  
Last Hour Service (Lifetime): 13113      (13113)      on 12/20/2023  
Last Odometer Service (Lifetime):      on

**Problem Description:** Repair inspection. Replace rubber over hydraulic tank fill. Missing hardware from the belly pans. Leaking return hose on top of radiator. Upper cooling group bracket coming apart. Turbo oil return hose leaking. Bottom of oil cooler plugged. Turbo outlet tube needs adjusted. Replace engine belt and tensioner. A/C not working. Both bottom hose connections leaking on drive motors. Leak at pump coupler. Replace cab bottom seals. Replace left bottom door latch. Replace A/C line to the cab. Replace all CAT decals. Replace line at bottom of oil cooler. Replace rear Elder decal. Replace upper quick attach hoses.

## Maintenance Work Order

**Work Order:** 77947  
**Priority:** Normal  
**Due Date:**

**Labor Items:**

Work Code	Item Code	ST	OT	DT	
Inspect	10 - Inspection / Cleaning:Repair Inspection		6.50	0.00	0.00
Perform	10 - Inspection / Cleaning:Repair Inspection		2.00	0.00	0.00
Remove	27 - Cab / Body:Belly Pan / All Guards		1.50	0.00	0.00
Repair	19 - Cooling System:Radiator		11.50	0.00	0.00
Repair	27 - Cab / Body:Belly Pan / All Guards		2.00	0.00	0.00
Replace	11 - Engine:Belts		2.00	0.00	0.00
Replace	14 - Hydraulic System:Hydraulic Fittings / Lines		0.50	0.00	0.00
Replace	27 - Cab / Body:Decals - Elder / Unit #		0.50	0.00	0.00
Replace	27 - Cab / Body:Door Latch / Lock		0.50	0.00	0.00
Replace	28 - Air Conditioning / Heating System:Low / High Side Hose		13.00	0.00	0.00
Reseal	14 - Hydraulic System:Hydraulic Fittings / Lines		1.00	0.00	0.00

**Parts List:**

Part Num	Name	UOM	Qty Used	
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## Maintenance Work Order

**Work Order:** 77947  
**Priority:** Normal  
**Due Date:**

**Cost Ledger:**

Type	Ref Num	Description	Estimated Cost
Parts		Invoice #: IN001416873, Item Description: Tensioner, Line As, Fanbelt, , Vendor Name: Ziegler, Inc.	\$0.00
Parts		Invoice #: IN001438811, Item Description: Baffle, Latch As, Film Cat- Lh, Vendor Name: Ziegler, Inc.	\$0.00
Parts		Invoice #: IN001417247, Item Description: Hose As, Vendor Name: Ziegler, Inc.	\$0.00
Parts		Invoice #: IN001416308, Item Description: Dryer, Vendor Name: Ziegler, Inc.	\$0.00
Parts		Invoice #: IN001420936, Item Description: Clip, Vendor Name: Ziegler, Inc.	\$0.00
Parts		Invoice #: IN001417379, Item Description: Hose As, Coupling A, Seal O-ri, Vendor Name: Ziegler, Inc.	\$0.00
Parts		Invoice #: IN001419957, Item Description: Tube As, Spacer, Seal Oring, Vendor Name: Ziegler, Inc.	\$0.00
Parts		Invoice #: IN00146308, Item Description: Dryer, Vendor Name: Ziegler, Inc.	\$0.00
Parts		Invoice #: IN001439276, Item Description: Hose As, Vendor Name: Ziegler, Inc.	\$0.00
Parts		Invoice #: IN001417284, Item Description: Coupling A, Nut, Vendor Name: Ziegler, Inc.	\$0.00
Parts		Invoice #: IN001416451, Item Description: Mounting, Washer, Bolt, Vendor Name: Ziegler, Inc.	\$0.00

**Reconciled Purchases:**

Part Num	Description	Invoice #	Ref #	Qty Used
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## Maintenance Work Order

**Work Order:** 77947  
**Priority:** Normal  
**Due Date:**

### Notes:

4/15/2024	Wade J. Smith	4/11/24 Noticed upper quick attach hoses dry rotted, let Taylor know. Grill fastening bolts had been left loose, tighten.
4/13/2024	Ronnie L Kelso	4/12/24 Removed and replaced the two quick attach hoses by the cab, installed new o-rings. Loaded bucket onto forks and parked machine in lot.
4/3/2024	John M. Pohlman	Finished installing belly pans. Green tagged machine and parked in west lot with bucket and forks.
4/2/2024	John M. Pohlman	Brought machine into shop. Got belly pans and guards from wash bay. Installed all belly pans and guards.
3/30/2024	John J. Lauber	3/29 - Charged A/C system. Ran machine. A/C working as it should. Moved machine to west lot.
3/29/2024	Ronnie L Kelso	3/28/24 Helped install A/C lines with John.
3/28/2024	John J. Lauber	Replaced high and low side tubes for A/C. Pulled system into vacuum.
3/28/2024	Wade J. Smith	Repair threads in radiator support block.
3/27/2024	John J. Lauber	Replaced hoses and quick couplers for A/C. Started to recharge system, found lines from the compressor are leaking. Installed all body panels from radiator repair.
3/27/2024	John J. Lauber	3/26 - Lifted cab on machine. Took off body panels for radiator bracket repair. Removed A/C lines and quick connects under the cab. Changed door handle on left bottom door. Replaced engine belt and tensioner.
3/27/2024	John J. Lauber	3/25 - Removed belly pans.
3/27/2024	Chase A. Rose	3/27/24 - Cleaned up bay. Replace hydraulic oil cooler supply hose. Found 2 stripped belly pan mounting nuts, cut off nuts and welded new nuts.
3/26/2024	Chase A. Rose	3/26/24 - Help John tilt cab, helped John perform repair inspection, stripped machine down for repairs on radiator brackets. Welded washers to repair top radiator bracket and painted. Replaced o-rings in the supply lines going to the drive motors. Replaced rear Elder decal.

# Maintenance Work Order

**Work Order:** 78456  
**Priority:** Normal  
**Due Date:**

**Scheduling:**

**Status:** Closed  
**Status Date:** 4/29/2024

Mechanic Name	Schedule Date	Work Complete?
John J. Lauber	4/23/2024	<input checked="" type="checkbox"/>

Equipment ID: 22-026	Description: Cat 963D Track Loader
Work Order Job: 23-B261	VIN #
Current Job: 24-R137	Serial # LCS02190
Current Location: 24-R137	License Plate #
Equipment Foreman:	Make: Cat
Work Order Foreman:	Model: 963D
	Carrier Name:

Meter Reading: Hours: 13147 on 4/26/2024 by Williams, Trevor L.  
 Odometer: on by  
 Last Hour Service (Lifetime): 13113 (13113) on 12/20/2023  
 Last Odometer Service (Lifetime): on

**Problem Description:** Hose blown under cab.

**Labor Items:**

Work Code	Item Code	ST	OT	DT	
Diagnose	14 - Hydraulic System:Hydraulic Fittings / Lines		1.00	0.00	0.00
Parts Delivery or Pickup	14 - Hydraulic System:Hydraulic Fittings / Lines		2.00	0.00	0.00
Replace	14 - Hydraulic System:Hydraulic Fittings / Lines		2.00	0.00	0.00

**Parts List:**

Part Num	Name	UOM	Qty Used	
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**Cost Ledger:**

Type	Ref Num	Description	Estimated Cost
Parts		Invoice #: IN001455839, Item Description: Hose As, Vendor Name: Ziegler, Inc.	\$0.00

**Reconciled Purchases:**

Part Num	Description	Invoice #	Ref #	Qty Used	
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# Maintenance Work Order

**Work Order:** 78456  
**Priority:** Normal  
**Due Date:**

**Notes:**

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4/24/2024	John J. Lauber	Replaced hoses. Filled hydraulic fluid. Ran machine.
4/23/2024	John J. Lauber	Found filter hoses leaking. Ordered hoses. Picked up from Ziegler. Filled oil at the shop.

# Maintenance Work Order

**Work Order:** 76982  
**Priority:** Normal  
**Due Date:**

**Scheduling:**

**Status:** Closed  
**Status Date:** 12/27/2023

Mechanic Name	Schedule Date	Work Complete?
Christopher J. Murano	12/14/2023	<input checked="" type="checkbox"/>
Timothy M. Kirkman	12/14/2023	<input checked="" type="checkbox"/>

Equipment ID: 22-026	Description: Cat 963D Track Loader
Work Order Job: 23-B261	VIN #
Current Job: 24-R137	Serial # LCS02190
Current Location: 24-R137	License Plate #
Equipment Foreman:	Make: Cat
Work Order Foreman:	Model: 963D
	Carrier Name:

Meter Reading: Hours: 13113 on 12/20/2023 by Timothy M. Kirkman  
 Odometer: on by  
 Last Hour Service (Lifetime): 13113 (13113) on 12/20/2023  
 Last Odometer Service (Lifetime): on

Problem Description: PM2/500hr.

**Labor Items:**

Work Code	Item Code	ST	OT	DT	
Perform	26 - PM / Service:PM's Hours:PM2/500		9.00	0.00	0.00

**Parts List:**

Part Num	Name	UOM	Qty Used	
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**Cost Ledger:**

Type	Ref Num	Description	Estimated Cost	
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**Reconciled Purchases:**

Part Num	Description	Invoice #	Ref #	Qty Used	
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# Maintenance Work Order

**Work Order:** 76982  
**Priority:** Normal  
**Due Date:**

**Notes:**

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12/20/2023 Timothy M. Kirkman Center radiator is starting to egg out the upper bolt holes and rocking back and forth. Looks to have been repaired before. Engine oil drain access cover has one bolt holding it on and the other stripped . Power washed machine.

# Maintenance Work Order

**Work Order:** 76998  
**Priority:** Normal  
**Due Date:**

**Scheduling:**

**Status:** Closed  
**Status Date:** 12/22/2023

Mechanic Name	Schedule Date	Work Complete?
Michael G Laymance	12/17/2023	<input checked="" type="checkbox"/>
Timothy M. Kirkman	12/17/2023	<input checked="" type="checkbox"/>
Christopher J. Murano	12/17/2023	<input checked="" type="checkbox"/>

Equipment ID:	22-026	Description:	Cat 963D Track Loader
Work Order Job:	23-B261	VIN #	
Current Job:	24-R137	Serial #	LCS02190
Current Location:	24-R137	License Plate #	
Equipment Foreman:		Make:	Cat
Work Order Foreman:		Model:	963D
		Carrier Name:	

Meter Reading: Hours: 13114 on 12/21/2023 by Kuhse, Kraig L.  
 Odometer: on by  
 Last Hour Service (Lifetime): 13113 (13113) on 12/20/2023  
 Last Odometer Service (Lifetime): on

**Problem Description:** Hydraulic leak.

**Labor Items:**

Work Code	Item Code	ST	OT	DT	
Clean	10 - Inspection / Cleaning:Steam Cleaning		2.00	0.00	0.00
Parts Delivery or Pickup	14 - Hydraulic System:Quick Attach Cylinder, Hose, Valve, Wiring		1.00	0.00	0.00
Repair	14 - Hydraulic System:Quick Attach Cylinder, Hose, Valve, Wiring		1.00	0.00	0.00

**Parts List:**

Part Num	Name	UOM	Qty Used	
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**Cost Ledger:**

Type	Ref Num	Description	Estimated Cost
Parts		Invoice #: IN001295018, Item Description: Hose As, Vendor Name: Ziegler, Inc.	\$0.00

# Maintenance Work Order

**Work Order:** 76998  
**Priority:** Normal  
**Due Date:**

Reconciled Purchases:

Part Num	Description	Invoice #	Ref #	Qty Used	
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Notes:

- |            |                    |          |  |  |  |
|------------|--------------------|----------|--|--|--|
| 12/19/2023 | Michael G Laymance | 12-18-23 |  |  | Found quick attach hose broke. Ordered new lines and drove to Ziegler and picked parts up. Drove back to job and had to chisel dirt from around fittings to get old lines off. Installed new lines and topped off hydraulic fluid. |
| 12/18/2023 | Timothy M. Kirkman |          |  |  | Power washed windows after hydraulic line blew.  |

# Maintenance Work Order

**Work Order:** 76264  
**Priority:** Normal  
**Due Date:**

**Scheduling:**

**Status:** Closed  
**Status Date:** 11/13/2023

Mechanic Name	Schedule Date	Work Complete?
Colton A Smith	11/1/2023	<input checked="" type="checkbox"/>

Equipment ID: 22-026	Description: Cat 963D Track Loader
Work Order Job: 23-ELD2	VIN #
Current Job: 24-R137	Serial # LCS02190
Current Location: 24-R137	License Plate #
Equipment Foreman:	Make: Cat
Work Order Foreman:	Model: 963D
	Carrier Name:

Meter Reading: Hours: 13086 on 11/3/2023 by Kuhse, Kraig L.  
 Odometer: on by  
 Last Hour Service (Lifetime): 12914 (12914) on 7/10/2023  
 Last Odometer Service (Lifetime): on

**Problem Description:** Right hand door glass broken

**Labor Items:**

Work Code	Item Code	ST	OT	DT	
Parts Delivery or Pickup	27 - Cab / Body:Glass		1.00	0.00	0.00
Replace	27 - Cab / Body:Glass		3.50	0.00	0.00

**Parts List:**

Part Num	Name	UOM	Qty Used	
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**Cost Ledger:**

Type	Ref Num	Description	Estimated Cost
Parts		Invoice #: CM000177189, Item Description: Glass, Vendor Name: Ziegler, Inc.	\$0.00
Parts		Invoice #: 50867, Item Description: Replace Window in Frame, Vendor Name: Pro Auto Glass	\$0.00
Parts		Invoice #: IN001238259, Item Description: Window, Vendor Name: Ziegler, Inc.	\$0.00
Parts		Invoice #: IN001240197, Item Description: Glass, Vendor Name: Ziegler, Inc.	\$0.00

**Reconciled Purchases:**

Part Num	Description	Invoice #	Ref #	Qty Used
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# Maintenance Work Order

**Work Order:** 76264  
**Priority:** Normal  
**Due Date:**

**Notes:**

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- 11/9/2023 Colton A Smith Picked up door and drove to machine and installed right hand door with new glass.
- 11/6/2023 Colton A Smith 11/2/23 Drove to job and removed right side door frame and ordered new glass.

# Maintenance Work Order

**Work Order:** 74550  
**Priority:** Normal  
**Due Date:**

**Scheduling:**

**Status:** Closed  
**Status Date:** 10/30/2023

Mechanic Name	Schedule Date	Work Complete?
Kyle R. Gerke	9/25/2023	<input checked="" type="checkbox"/>
Wade J. Smith	10/18/2023	<input checked="" type="checkbox"/>

Equipment ID: 22-026	Description: Cat 963D Track Loader
Work Order Job: 23-H123	VIN #
Current Job: 24-R137	Serial # LCS02190
Current Location: 24-R137	License Plate #
Equipment Foreman:	Make: Cat
Work Order Foreman:	Model: 963D
	Carrier Name:

Meter Reading: Hours: 13072 on 10/6/2023 by Williams, Trevor L.  
 Odometer: on by  
 Last Hour Service (Lifetime): 12914 (12914) on 7/10/2023  
 Last Odometer Service (Lifetime): on

**Problem Description:** Track frame leaking. Tracks loose. Track bolt missing.

**Labor Items:**

Work Code	Item Code	ST	OT	DT	
Adjust	17 - Undercarriage:Track Adjustment		1.00	0.00	0.00
Inspect	17 - Undercarriage:Track Frame		1.00	0.00	0.00
Repair	17 - Undercarriage:Track Frame		17.75	0.00	0.00

**Parts List:**

Part Num	Name	UOM	Qty Used	
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**Cost Ledger:**

Type	Ref Num	Description	Estimated Cost
Parts		Invoice #: IN001215556, Item Description: Plate, Seal, Bolt-Track, Nut, , Vendor Name: Ziegler, Inc.	\$0.00

**Reconciled Purchases:**

Part Num	Description	Invoice #	Ref #	Qty Used	
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# Maintenance Work Order

**Work Order:** 74550  
**Priority:** Normal  
**Due Date:**

## Notes:

10/26/2023	Kyle R. Gerke	10-24-23 Finished putting guards around sprockets. Wrapped track around frame. Installed new master link bolts. Tightened track up. Replaced missing track pad bolt on left track. Test ran until and rechecked track tension was good. Cleaned up area.
10/26/2023	Kyle R. Gerke	10-23-23 Installed pin for EQ bar and installed sprockets back onto machine. Started putting guards back on around sprockets.
10/23/2023	Wade J. Smith	Gouge and weld crack right track frame.
10/19/2023	Kyle R. Gerke	Finished taking off guards around sprockets and removed sprocket sections to pull track frame off. Drained pivot shafts and pulled track frame off machine. Flipped track frame and removed last 2 rollers on rear. Cleaned up weld where was cracked. Wade took frame to his shop to weld it up. Cleaned up pivot shaft and ordered new seals and bolts to put unit back together. Got track frame back had to tap bolt hole for rock guard. mounted rollers and rock guards on frame. flipped it over and mounted to machine with new seals on pivot shafts.
10/19/2023	Kyle R. Gerke	10-18-23 Got machine pulled up behind shop and up on stands. Removed rear weights and step. Removed track on right side. Knocked on pin for EQ bar.
9/29/2023	Kyle R. Gerke	Right side track was loose. Removed cover and tightened track up looks like leaking around tension cylinder rod. Tightened left side up also.
9/26/2023	Kyle R. Gerke	Unit is leaking down on to roller removed rear cover over sprockets. Looked inside frame and found wetness coming from welds on right side track frame under pivot shaft leaking. Put unit back together.

# Maintenance Work Order

**Work Order:** 74165  
**Priority:** Normal  
**Due Date:**

**Scheduling:**

**Status:** Closed  
**Status Date:** 9/18/2023

Mechanic Name	Schedule Date	Work Complete?
John J. Lauber	9/6/2023	<input checked="" type="checkbox"/>
Michael G Laymance	9/13/2023	<input checked="" type="checkbox"/>

Equipment ID: 22-026	Description: Cat 963D Track Loader
Work Order Job: 23-H123	VIN #
Current Job: 24-R137	Serial # LCS02190
Current Location: 24-R137	License Plate #
Equipment Foreman:	Make: Cat
Work Order Foreman:	Model: 963D
	Carrier Name:

Meter Reading: Hours: 13043 on 9/15/2023 by Williams, Trevor L.  
 Odometer: on by  
 Last Hour Service (Lifetime): 12914 (12914) on 7/10/2023  
 Last Odometer Service (Lifetime): on

**Problem Description:** Right track #6 bottom roller is bad. A/C inop, and fuel filter restriction.

**Labor Items:**

Work Code	Item Code	ST	OT	DT	
Diagnose	17 - Undercarriage:Bottom Rollers		1.50	0.00	0.00
Repair	28 - Air Conditioning / Heating System		1.00	0.00	0.00
Replace	15 - Fuel System:Fuel Filter		0.50	0.00	0.00
Replace	17 - Undercarriage:Bottom Rollers		5.50	0.00	0.00

**Parts List:**

Part Num	Name	UOM	Qty Used	
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**Cost Ledger:**

Type	Ref Num	Description	Estimated Cost
Parts		Invoice #: IN001154191, Item Description: Roller Gp Df, Vendor Name: Ziegler, Inc.	\$0.00

**Reconciled Purchases:**

Part Num	Description	Invoice #	Ref #	Qty Used	
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# Maintenance Work Order

**Work Order:** 74165  
**Priority:** Normal  
**Due Date:**

## Notes:

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9/18/2023	John J. Lauber	Got machine on jack stands. Removed rock guards. Changed bad bottom roller. Installed rock guards. Set tension on track.
9/14/2023	Michael G Laymance	Replaced fuel filters. Freon was low recharged it and blew out condensor and radiator.
9/8/2023	John J. Lauber	9/7 - Checked tracks over for leaks, found bottom roller looking like a cowbell.

# Maintenance Work Order

**Work Order:** 72917  
**Priority:** Normal  
**Due Date:**

**Scheduling:**

**Status:** Closed  
**Status Date:** 7/25/2023

Mechanic Name	Schedule Date	Work Complete?
John J. Lauber	7/8/2023	<input checked="" type="checkbox"/>
Michael G Laymance	7/13/2023	<input checked="" type="checkbox"/>

Equipment ID: 22-026      Description: Cat 963D Track Loader  
Work Order Job: 23-S528      VIN #  
Current Job: 24-R137      Serial # LCS02190  
Current Location: 24-R137      License Plate #  
Equipment Foreman:      Make: Cat  
Work Order Foreman:      Model: 963D  
Carrier Name:

Meter Reading:      Hours: 12939      on 7/24/2023      by Williams, Trevor L.  
Odometer:      on      by  
Last Hour Service (Lifetime): 12914      (12914)      on 7/10/2023  
Last Odometer Service (Lifetime):      on

**Problem Description:** Replace teeth. Seat does not stay aired up. Right side tooth adaptor wore through. Top of hitch bent up. Pivot shaft plugs to tight, can't get off. Right final over full. Back up alarm inop.

# Maintenance Work Order

**Work Order:** 72917  
**Priority:** Normal  
**Due Date:**

**Labor Items:**

Work Code	Item Code	ST	OT	DT	
Check Fluid	18 - Final Drive:Final Drive Oil		1.00	0.00	0.00
Parts Delivery or Pickup	12 - Transmission / Power Train:Backup Alarm / Travel Alarm		1.50	0.00	0.00
Parts Delivery or Pickup	23 - Cutting Edge / Teeth:Tooth Adapter		2.50	0.00	0.00
Repair	12 - Transmission / Power Train:Backup Alarm / Travel Alarm		0.50	0.00	0.00
Repair	18 - Final Drive:Final Drive Oil		1.00	0.00	0.00
Repair	23 - Cutting Edge / Teeth:Tooth Adapter		1.50	0.00	0.00
Repair	25 - Attachments:Hitc h, Pin and Retainer		1.00	0.00	0.00
Repair	27 - Cab / Body:Seat Assembly		2.50	0.00	0.00
Replace	23 - Cutting Edge / Teeth:Teeth, Pins and Retainers		1.50	0.00	0.00

**Parts List:**

Part Num	Name	UOM	Qty Used	
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# Maintenance Work Order

**Work Order:** 72917  
**Priority:** Normal  
**Due Date:**

**Cost Ledger:**

Type	Ref Num	Description	Estimated Cost
Parts		Invoice #: IN001080322, Item Description: Adapter, Locknut, Bolts, Vendor Name: Ziegler, Inc.	\$0.00
Parts		Invoice #: CM000155854, Item Description: Returned Adapter, Vendor Name: Ziegler, Inc.	\$0.00
Parts		Invoice #: IN001082925, Item Description: Adapter, Bolt, Vendor Name: Ziegler, Inc.	\$0.00
Parts		Invoice #: IN001072618, Item Description: Retainer, Tip, Vendor Name: Ziegler, Inc.	\$0.00
Parts		Invoice #: IN001079404, Item Description: Backup Alarm, Vendor Name: Ziegler, Inc.	\$0.00

**Reconciled Purchases:**

Part Num	Description	Invoice #	Ref #	Qty Used
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**Notes:**

- 7/18/2023 Michael G Laymance Went to Ziegler and picked up tooth retainer. Drove to job and replaced r/s tooth adaptor.
- 7/14/2023 Michael G Laymance Ordered tooth adaptor and went to Ziegler and picked it up. Drove to job and removed tooth and adaptor. I went to install the new one and it was incorrect. Got part number off old one and ordered it. Drove to ziegler to pick it up and they could not find the part and had to be ordered. Went back to blue creek and reinstalled old adaptor and tooth.
- 7/13/2023 Michael G Laymance Had to heat plugs to get them to break loose to check oil level. Oil level good.
- 7/13/2023 Michael G Laymance Heated hitch had to get it glowing in order to finally get it to bend back down.
- 7/13/2023 Michael G Laymance Drove to job and checked back up alarm for power. Ordered new alarm went to Ziegler and picked it up. Drove back to job and replaced alarm. Checked operation. Inspected final drive, oil level correct.
- 7/8/2023 John J. Lauber Replaced teeth and retainers. Checked seat suspension over. Replaced the seat air switch, then had no power to the compressor. Found broken wire. Replaced wire. Operated seat. No leaks found.

# Maintenance Work Order

**Work Order:** 72894  
**Priority:** Normal  
**Due Date:**

**Scheduling:**

**Status:** Closed  
**Status Date:** 7/19/2023

Mechanic Name	Schedule Date	Work Complete?
Christopher J. Murano	7/6/2023	<input checked="" type="checkbox"/>
Ezequiel "Zeke" Banuelos Garcia	7/6/2023	<input checked="" type="checkbox"/>
John M. Pohlman	7/6/2023	<input checked="" type="checkbox"/>
Timothy M. Kirkman	7/6/2023	<input checked="" type="checkbox"/>

Equipment ID: 22-026      Description: Cat 963D Track Loader  
Work Order Job: 23-S528      VIN #  
Current Job: 24-R137      Serial # LCS02190  
Current Location: 24-R137      License Plate #  
Equipment Foreman:      Make: Cat  
Work Order Foreman:      Model: 963D  
Carrier Name:

Meter Reading:      Hours: 12914      on 7/10/2023      by John M. Pohlman  
Odometer:      on      by  
Last Hour Service (Lifetime): 12914      (12914)      on 7/10/2023  
Last Odometer Service (Lifetime):      on

Problem Description: PM1/250hr.

**Labor Items:**

Work Code	Item Code	ST	OT	DT	
Perform	26 - PM / Service:PM's Hours:PM1/250		7.00	0.00	0.00

**Parts List:**

Part Num	Name	UOM	Qty Used	
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**Cost Ledger:**

Type	Ref Num	Description	Estimated Cost	
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**Reconciled Purchases:**

Part Num	Description	Invoice #	Ref #	Qty Used	
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# Maintenance Work Order

**Work Order:** 72894  
**Priority:** Normal  
**Due Date:**

Notes:

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7/10/2023      John M. Pohlman      Done and washed, Right Final over full, Both pivot shaft plugs on so tight we cant remove, Hitch is bent, Right outer tooth shank of bucket is worn through, Back up alarm is not working.

# Maintenance Work Order

**Work Order:** 72239  
**Priority:** Normal  
**Due Date:**

**Scheduling:**

**Status:** Closed  
**Status Date:** 6/22/2023

Mechanic Name	Schedule Date	Work Complete?
John J. Lauber	6/1/2023	<input checked="" type="checkbox"/>
Michael G Laymance	6/8/2023	<input checked="" type="checkbox"/>

Equipment ID: 22-026	Description: Cat 963D Track Loader
Work Order Job: 23-S537	VIN #
Current Job: 24-R137	Serial # LCS02190
Current Location: 24-R137	License Plate #
Equipment Foreman:	Make: Cat
Work Order Foreman:	Model: 963D
	Carrier Name:

Meter Reading: Hours: 12870 on 6/9/2023 by Lewis, Jeff  
 Odometer: on by  
 Last Hour Service (Lifetime): 12709 (12709) on 5/8/2023  
 Last Odometer Service (Lifetime): on

**Problem Description:** Right pivot shaft is leaking, send to Ziegler to have both resealed. Bolts missing from coolant tank.

**Labor Items:**

Work Code	Item Code	ST	OT	DT	
Diagnose	16 - Chassis / Suspension:Pivot Shafts		1.00	0.00	0.00
Repair	19 - Cooling System:Coolant Reservoir / Overflow Tank		1.00	0.00	0.00

**Parts List:**

Part Num	Name	UOM	Qty Used	
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**Cost Ledger:**

Type	Ref Num	Description	Estimated Cost
Parts		Invoice #: SI000347798, Item Description: Pivot shaft repair, Vendor Name: Ziegler, Inc.	\$0.00

**Reconciled Purchases:**

Part Num	Description	Invoice #	Ref #	Qty Used	
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# Maintenance Work Order

**Work Order:** 72239  
**Priority:** Normal  
**Due Date:**

Notes:

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6/8/2023 Michael G Laymance Installed new mounting bolts for resevoir.  
6/1/2023 John J. Lauber Found right pivot shaft leaking.

# Maintenance Work Order

**Work Order:** 72011  
**Priority:** Normal  
**Due Date:**

**Scheduling:**

**Status:** Closed  
**Status Date:** 5/23/2023

Mechanic Name	Schedule Date	Work Complete?
Ryan J Baker	5/19/2023	<input checked="" type="checkbox"/>

Equipment ID: 22-026	Description: Cat 963D Track Loader
Work Order Job: 22-S513	VIN #
Current Job: 24-R137	Serial # LCS02190
Current Location: 24-R137	License Plate #
Equipment Foreman:	Make: Cat
Work Order Foreman:	Model: 963D
	Carrier Name:

Meter Reading: Hours: 12772 on 5/22/2023 by Lewis, Jeff  
 Odometer: on by  
 Last Hour Service (Lifetime): 12709 (12709) on 5/8/2023  
 Last Odometer Service (Lifetime): on

Problem Description: ECM codes

**Labor Items:**

Work Code	Item Code	ST	OT	DT	
Inspect	11 - Engine:ECM		1.50	0.00	0.00

**Parts List:**

Part Num	Name	UOM	Qty Used
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**Cost Ledger:**

Type	Ref Num	Description	Estimated Cost
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**Reconciled Purchases:**

Part Num	Description	Invoice #	Ref #	Qty Used
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**Notes:**

5/19/2023 Ryan J Baker Inspected machine for ECM codes. Didint find any active codes and no logged codes for ECM. Tested machine and could not get a code to activate.

# Maintenance Work Order

**Work Order:** 71657  
**Priority:** Normal  
**Due Date:**

**Scheduling:**

**Status:** Closed  
**Status Date:** 5/17/2023

Mechanic Name	Schedule Date	Work Complete?
Chase A. Rose	5/3/2023	<input checked="" type="checkbox"/>
Christopher J. Murano	5/3/2023	<input checked="" type="checkbox"/>
John M. Pohlman	5/3/2023	<input checked="" type="checkbox"/>
Timothy M. Kirkman	5/3/2023	<input checked="" type="checkbox"/>

Equipment ID: 22-026	Description: Cat 963D Track Loader
Work Order Job: 22-S513	VIN #
Current Job: 24-R137	Serial # LCS02190
Current Location: 24-R137	License Plate #
Equipment Foreman:	Make: Cat
Work Order Foreman:	Model: 963D
	Carrier Name:

Meter Reading: Hours: 12709 on 5/8/2023 by Christopher J. Murano

Odometer: on by

Last Hour Service (Lifetime): 12709 (12709) on 5/8/2023

Last Odometer Service (Lifetime): on

Problem Description: PM3/1000hr.

**Labor Items:**

Work Code	Item Code	ST	OT	DT	
Perform	26 - PM / Service:PM's Hours:PM3/1,000		7.00	0.00	0.00

**Parts List:**

Part Num	Name	UOM	Qty Used	

**Cost Ledger:**

Type	Ref Num	Description	Estimated Cost	

**Reconciled Purchases:**

Part Num	Description	Invoice #	Ref #	Qty Used	

# Maintenance Work Order

**Work Order:** 71657  
**Priority:** Normal  
**Due Date:**

**Notes:**

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5/8/2023 Christopher J. Murano Radiator is loose. Washed machine.

# Maintenance Work Order

**Work Order:** 71667  
**Priority:** Normal  
**Due Date:**

**Scheduling:**

**Status:** Closed  
**Status Date:** 5/16/2023

Mechanic Name	Schedule Date	Work Complete?
Ryan J Baker	5/2/2023	<input checked="" type="checkbox"/>
Michael G Laymance	5/9/2023	<input checked="" type="checkbox"/>

Equipment ID: 22-026	Description: Cat 963D Track Loader
Work Order Job: 21-M274	VIN #
Current Job: 24-R137	Serial # LCS02190
Current Location: 24-R137	License Plate #
Equipment Foreman:	Make: Cat
Work Order Foreman:	Model: 963D
	Carrier Name:

Meter Reading: Hours: 12745 on 5/15/2023 by Williams, Trevor L.  
 Odometer: on by  
 Last Hour Service (Lifetime): 12709 (12709) on 5/8/2023  
 Last Odometer Service (Lifetime): on

**Problem Description:** Radiator loose. Water pump leaking. Replace water pump and thermostat.

**Labor Items:**

Work Code	Item Code	ST	OT	DT	
Parts Delivery or Pickup	19 - Cooling System:Water Pump		1.50	0.00	0.00
Repair	19 - Cooling System:Radiator		2.50	0.00	0.00
Repair	19 - Cooling System:Water Pump		2.50	0.00	0.00

**Parts List:**

Part Num	Name	UOM	Qty Used	
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**Cost Ledger:**

Type	Ref Num	Description	Estimated Cost
Parts		Invoice #: IN000991739, Item Description: O-ring, Gasket Parts, Pump Kit, Vendor Name: Ziegler, Inc.	\$0.00
Parts		Invoice #: IN000991862, Item Description: Gasket, Thermostat, Vendor Name: Ziegler, Inc.	\$0.00

**Reconciled Purchases:**

Part Num	Description	Invoice #	Ref #	Qty Used	
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# Maintenance Work Order

**Work Order:** 71667  
**Priority:** Normal  
**Due Date:**

## Notes:

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- 5/9/2023 Michael G Laymance Ordered water pump and thermostat. Drove to ziegler and picked up parts then went by the shop and got a couple of 5gal buckets. Went back to job and drained coolant removed water pump and thermostat. Put coolant back in and had operator run it around. Checked level and for leaks.
- 5/9/2023 Michael G Laymance Drove to job and waited for them to get done using machine. Removed covers and tightened upper and lower radiator bolts. Noticed coolant smell and found water pump leaking.

# Maintenance Work Order

**Work Order:** 71293  
**Priority:** Normal  
**Due Date:**

**Scheduling:**

**Status:** Closed  
**Status Date:** 4/24/2023

Mechanic Name	Schedule Date	Work Complete?
Ryan J Baker	4/17/2023	<input checked="" type="checkbox"/>
Michael G Laymance	4/17/2023	<input checked="" type="checkbox"/>

Equipment ID: 22-026	Description: Cat 963D Track Loader
Work Order Job: 23-S528	VIN #
Current Job: 24-R137	Serial # LCS02190
Current Location: 24-R137	License Plate #
Equipment Foreman:	Make: Cat
Work Order Foreman:	Model: 963D
	Carrier Name:

Meter Reading: Hours: 12609 on 4/24/2023 by Williams, Trevor L.  
 Odometer: on by  
 Last Hour Service (Lifetime): 12507 (12507) on 12/12/2022  
 Last Odometer Service (Lifetime): on

**Problem Description:** Inspect cooling system. Inspect seat air suspension.

**Labor Items:**

Work Code	Item Code	ST	OT	DT	
Inspect	19 - Cooling System		8.00	0.00	0.00
Inspect	27 - Cab / Body:Seat Assembly		1.00	0.00	0.00
Parts Delivery or Pickup	19 - Cooling System:Coolant Reservoir / Overflow Tank		2.00	0.00	0.00

**Parts List:**

Part Num	Name	UOM	Qty Used	
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**Cost Ledger:**

Type	Ref Num	Description	Estimated Cost
Parts		Invoice #: IN000960598, Item Description: Tank Gp-Cool, Vendor Name: Ziegler, Inc.	\$0.00

**Reconciled Purchases:**

Part Num	Description	Invoice #	Ref #	Qty Used
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# Maintenance Work Order

**Work Order:** 71293  
**Priority:** Normal  
**Due Date:**

Notes:

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4/20/2023	Ryan J Baker	Removed coolant tank and installed new. Added coolant to bring level up to the cold full mark. Ran machine for 20 minutes and coolant level stayed at full mark.
4/19/2023	Ryan J Baker	Drove to jobsite to work on machine. Found machine on a trailer heading out of job. Will complete repairs at a later date.
4/17/2023	Ryan J Baker	Inspected machine for coolant leak. Traced coolant leak to underside of coolant tank. Ran machine and had drops forming underneath. Ordered new coolant tank. Inspected seat for losing air pressure. Did not see any leaks so likely a slow leak in the air bladder.

# Maintenance Work Order

**Work Order:** 70410  
**Priority:** Normal  
**Due Date:**

**Scheduling:**

**Status:** Closed  
**Status Date:** 3/10/2023

Mechanic Name	Schedule Date	Work Complete?
Tanner J. Rose	2/16/2023	<input checked="" type="checkbox"/>
Kyle R. Gerke	2/16/2023	<input checked="" type="checkbox"/>
Taylor J. Anderson	2/17/2023	<input checked="" type="checkbox"/>
Jacob H. Haws	2/22/2023	<input checked="" type="checkbox"/>
Mark E. McNaughton	3/6/2023	<input checked="" type="checkbox"/>

Equipment ID: 22-026	Description: Cat 963D Track Loader
Work Order Job: 22-S496	VIN #
Current Job: 24-R137	Serial # LCS02190
Current Location: 24-R137	License Plate #
Equipment Foreman:	Make: Cat
Work Order Foreman: Anthony Esch	Model: 963D
	Carrier Name:

Meter Reading: Hours: 12515 on 12/15/2022 by Trevor L. Williams  
 Odometer: on by  
 Last Hour Service (Lifetime): 12507 (12507) on 12/12/2022  
 Last Odometer Service (Lifetime): on

**Problem Description:** Repair Inspection. Repair all idler pivots. Replace park brake, throttle, and track speed switch. Top of hitch is bent up. Left track cover has an outer bolt hole stripped out. Engine oil drain access cover has only one bolt left. Threads are gone in second bolt hole. Replace #2 roller on RH side. Replace #3 and #4 rollers on LH side.

**Labor Items:**

Work Code	Item Code	ST	OT	DT	
Inspect	10 - Inspection / Cleaning:Repair Inspection		13.00	0.00	0.00
Repair	17 - Undercarriage:Idler Linkage and Pivots		41.00	0.00	0.00
Repair	27 - Cab / Body:Belly Pan / All Guards		2.00	0.00	0.00
Replace	13 - Lighting / Charging / Starting System:Cable, Terminals and Wiring		1.00	0.00	0.00
Replace	17 - Undercarriage:Bottom Rollers		5.00	0.00	0.00

**Parts List:**

Part Num	Name	UOM	Qty Used	
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# Maintenance Work Order

**Work Order:** 70410  
**Priority:** Normal  
**Due Date:**

**Cost Ledger:**

Type	Ref Num	Description	Estimated Cost
Parts		Invoice #: IN000888549, Item Description: Sleeve, Vendor Name: Ziegler, Inc.	\$0.00
Parts		Invoice #: CM000128991, Item Description: Strip, Vendor Name: Ziegler, Inc.	\$0.00
Parts		Invoice #: CM000130947, Item Description: Guard As, Vendor Name: Ziegler, Inc.	\$0.00
Parts		Invoice #: IN000888682, Item Description: Bolt, Washer, Vendor Name: Ziegler, Inc.	\$0.00
Parts		Invoice #: IN000889889, Item Description: Bolt-Track, Vendor Name: Ziegler, Inc.	\$0.00
Parts		Invoice #: CM000129216, Item Description: Guard As, Vendor Name: Ziegler, Inc.	\$0.00
Parts		Invoice #: IN000908442, Item Description: Guard Assy, Vendor Name: Ziegler, Inc.	\$0.00
Parts		Invoice #: IN000885247, Item Description: Switch As-Ro, Vendor Name: Ziegler, Inc.	\$0.00
Parts		Invoice #: IN000889880, Item Description: Plate, Vendor Name: Ziegler, Inc.	\$0.00
Parts		Invoice #: CM000129004, Item Description: Link As, Vendor Name: Ziegler, Inc.	\$0.00
Parts		Invoice #: IN000894315, Item Description: Guard As, Vendor Name: Ziegler, Inc.	\$0.00
Parts		Invoice #: IN000890395, Item Description: Roller Gp Sf & Df, Vendor Name: Ziegler, Inc.	\$0.00
Parts		Invoice #: IN000891281, Item Description: Guard As, Link As, Brg, Strip,, Vendor Name: Ziegler, Inc.	\$0.00
Parts		Invoice #: IN000890467, Item Description: Bolt, Vendor Name: Ziegler, Inc.	\$0.00

**Reconciled Purchases:**

Part Num	Description	Invoice #	Ref #	Qty Used
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# Maintenance Work Order

**Work Order:** 70410  
**Priority:** Normal  
**Due Date:**

## Notes:

3/9/2023	Tanner J. Rose	3/9/2023 - Install LH outside idler pivot guard/mount. Torque mounting bolts. Tighten track. Install new wear strip. Move machine outside and find bucket/forks and hook to machine. Park in the west lot as it is good to go. Clean up bay.
3/6/2023	Mark E. McNaughton	Install pans and guards
3/6/2023	Tanner J. Rose	3/6/2023 - Tap bolt holes for belly pan bolts. Go to replace guard for outside track frame and found it was not the correct piece once again. Called Ziegler to figure out next move. Clean up bay.
2/23/2023	Tanner J. Rose	2/23/2023 - Install bushing into bad idler pivot mount. Install mount onto machine to move outside. Clean up bay.
2/22/2023	Tanner J. Rose	2/22/2023 - Replaced 3 bottom rollers. Installed new grease zerks in bottom guards and made sure all took grease. Replaced wear strips on bottom guards as well. Installed tinware on roller frames. Wrapped both tracks. Got machine back on the ground. Torqued master bolts. Still waiting for bottom guard for left outside idler pivot. Clean up tools.
2/22/2023	Jacob H. Haws	Helped remove rollers and install 3 new ones. Wrapped tracks and torque pads.
2/21/2023	Tanner J. Rose	2/21/2023 - Cleaned up all idler linkage shafts. Installed new bearings on shafts. Installed guards, found that multiple holes were stripped. Removed guards and tapped all holes on the roller frames. Reinstalled guards. Found 3 bottom rollers leaking and ordered rollers. Order correct wear stripes. Clean up bay.
2/20/2023	Tanner J. Rose	2/20/2023 - Remove bearings from idler pivot mount blocks. Found that the bearings had all cracked and possibly spun. Decided at this time to replace the Left outside mount as it would not hold a bearing and run the rest of the mounts. Installed new bearings in all mounts. Had to torch off bearings sleeves on the idler pivot pins. Order new sleeves. Clean up bay.
2/20/2023	Taylor J. Anderson	2/20/2023- Clean up bores for idler pivots and shafts for repair.
2/19/2023	Taylor J. Anderson	2/17/2023- Brought unit it to shop and got put up on stands, removed tracks and removed all idler lower pivots for inspection and replacement. Tanner ordered all needed parts.
2/17/2023	Tanner J. Rose	2/17/2023 - Replace throttle speed switch, track speed switch, and parking brake switch. Move outside to be washed. Move back inside and break track to repair idler pivots. Disassemble idler pivots. Discussed the next plan of action with tracks/idlers/rollers. Clean up bay.
2/16/2023	Kyle R. Gerke	Move machine inside and remove belly pans. Make a list of repairs needed. Looked up parts and got them ordered.
2/16/2023	Tanner J. Rose	2/16/2023 - Move machine inside and remove belly pans. Make a list of repairs needed. Order parts. Clean up bay.

# Maintenance Work Order

**Work Order:** 69704  
**Priority:** Normal  
**Due Date:**

**Scheduling:**

**Status:** Closed  
**Status Date:** 12/20/2022

Mechanic Name	Schedule Date	Work Complete?
Christopher J. Murano	12/8/2022	<input checked="" type="checkbox"/>
Timothy M. Kirkman	12/8/2022	<input checked="" type="checkbox"/>

Equipment ID: 22-026	Description: Cat 963D Track Loader
Work Order Job: 22-S496	VIN #
Current Job: 24-R137	Serial # LCS02190
Current Location: 24-R137	License Plate #
Equipment Foreman:	Make: Cat
Work Order Foreman: Anthony Esch	Model: 963D
	Carrier Name:

Meter Reading: Hours: 12507 on 12/12/2022 by Timothy M. Kirkman  
 Odometer: on by  
 Last Hour Service (Lifetime): 12507 (12507) on 12/12/2022  
 Last Odometer Service (Lifetime): on

Problem Description: PM1/250hr. Add ELC extender and conditioner to the cooling system.

**Labor Items:**

Work Code	Item Code	ST	OT	DT	
Perform	26 - PM / Service:PM's Hours:PM1/250		8.00	0.00	0.00

**Parts List:**

Part Num	Name	UOM	Qty Used	
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**Cost Ledger:**

Type	Ref Num	Description	Estimated Cost	
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**Reconciled Purchases:**

Part Num	Description	Invoice #	Ref #	Qty Used	
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# Maintenance Work Order

**Work Order:** 69704  
**Priority:** Normal  
**Due Date:**

**Notes:**

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12/12/2022 Timothy M. Kirkman Added coolant extender and conditioner . Power washed radiator .

# Maintenance Work Order

**Work Order:** 69109  
**Priority:** Normal  
**Due Date:**

**Scheduling:**

**Status:** Closed  
**Status Date:** 12/6/2022

Mechanic Name	Schedule Date	Work Complete?
Ryan J Baker	11/3/2022	<input checked="" type="checkbox"/>
John J. Lauber	11/9/2022	<input checked="" type="checkbox"/>
Taylor J. Anderson	11/30/2022	<input checked="" type="checkbox"/>

Equipment ID: 22-026	Description: Cat 963D Track Loader
Work Order Job: 22-S496	VIN #
Current Job: 24-R137	Serial # LCS02190
Current Location: 24-R137	License Plate #
Equipment Foreman:	Make: Cat
Work Order Foreman: Anthony Esch	Model: 963D
	Carrier Name:

Meter Reading: Hours: 12470 on 12/2/2022 by Trevor L. Williams  
 Odometer: on by  
 Last Hour Service (Lifetime): 12300 (12300) on 9/9/2022  
 Last Odometer Service (Lifetime): on

**Problem Description:** Repair bucket quick coupler and replace missing cutting edge segment. Right track adjustment.

**Labor Items:**

Work Code	Item Code	ST	OT	DT	
Adjust	17 - Undercarriage:Track Adjustment		1.00	0.00	0.00
Parts Delivery or Pickup	23 - Cutting Edge / Teeth:Cutting Edge		4.50	0.00	0.00
Repair	14 - Hydraulic System:Quick Attach Cylinder, Hose, Valve, Wiring		1.00	0.00	0.00
Replace	23 - Cutting Edge / Teeth:Cutting Edge		4.00	0.00	0.00

**Parts List:**

Part Num	Name	UOM	Qty Used	
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# Maintenance Work Order

**Work Order:** 69109  
**Priority:** Normal  
**Due Date:**

**Cost Ledger:**

Type	Ref Num	Description	Estimated Cost
Parts		Invoice #: IN000766126, Item Description: Edge-Segment, Vendor Name: Ziegler, Inc.	\$0.00
Parts		Invoice #: IN000760838, Item Description: Edge-Segment, Bolt, Nut, Vendor Name: Ziegler, Inc.	\$0.00
Parts		Invoice #: IN000764924, Item Description: Edge-Segment, Bolt, Nut, Vendor Name: Ziegler, Inc.	\$0.00
Parts		Invoice #: IN000773531, Item Description: Edge Segment, Bolt, Locknut, Vendor Name: Ziegler, Inc.	\$0.00
Parts		Invoice #: CM000109376, Item Description: Edge-Segment, Vendor Name: Ziegler, Inc.	\$0.00
Parts		Invoice #: CM000109900, Item Description: Edge-Segment, Vendor Name: Ziegler, Inc.	\$0.00

**Reconciled Purchases:**

Part Num	Description	Invoice #	Ref #	Qty Used
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**Notes:**

11/30/2022	Taylor J. Anderson	11/30/2022- Adjusted tension on right track.		
11/9/2022	John J. Lauber	Tried to replace missing segment on the bucket, not the right style. Found right end tooth adapter loose, could not tighten. Ordered bolts for the tooth adapter and ordered correct segment.		
11/4/2022	Ryan J Baker	11/3/22 Inspected machine after displaying a fault stating the quick coupler was not fully actuated. Found quick coupler pin bores on bucket were packed with dirt. After cleaning the bores I attached the bucket and found the left pin did not go down as far as the right side. I cleaned the pin bores on the quick coupler and got the pin to seat enough to engage the bucket. The far right bucket tooth adapter was found to be loose. Inspected underneath the bucket and found the cutting edge is missing. Ordered a new cutting edge segment with hardware.		

# Maintenance Work Order

**Work Order:** 67790  
**Priority:** Normal  
**Due Date:**

**Scheduling:**

**Status:** Closed  
**Status Date:** 9/22/2022

Mechanic Name	Schedule Date	Work Complete?
Kyle R. Gerke	9/9/2022	<input checked="" type="checkbox"/>
Ryan J Baker	9/15/2022	<input checked="" type="checkbox"/>

Equipment ID: 22-026	Description: Cat 963D Track Loader
Work Order Job: 21-S449	VIN #
Current Job: 24-R137	Serial # LCS02190
Current Location: 24-R137	License Plate #
Equipment Foreman:	Make: Cat
Work Order Foreman: Anthony Esch	Model: 963D
	Carrier Name:

Meter Reading: Hours: 12305 on 9/13/2022 by Trevor L. Williams  
 Odometer: on by  
 Last Hour Service (Lifetime): 12300 (12300) on 9/9/2022  
 Last Odometer Service (Lifetime): on

**Problem Description:** Hydraulic cap needs replaced. Front cab mounts are bad. Rear glass cracked when picking cab up. Pro Auto Glass replaced glass.

**Labor Items:**

Work Code	Item Code	ST	OT	DT	
	27 - Cab / Body: Cab				
Inspect	Suspension, Air, Bushing/mount, Sway Bar, Shock		0.50	0.00	0.00
Parts Delivery or Pickup	14 - Hydraulic System: Hydraulic Tank		1.00	0.00	0.00
Parts Delivery or Pickup	27 - Cab / Body: Cab Suspension, Air, Bushing/mount, Sway Bar, Shock		0.50	0.00	0.00
Prep	27 - Cab / Body: Glass		4.00	0.00	0.00
Repair	14 - Hydraulic System: Hydraulic Tank		0.50	0.00	0.00
Replace	27 - Cab / Body: Cab Suspension, Air, Bushing/mount, Sway Bar, Shock		10.00	0.00	0.00

**Parts List:**

Part Num	Name	UOM	Qty Used	
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# Maintenance Work Order

**Work Order:** 67790  
**Priority:** Normal  
**Due Date:**

**Cost Ledger:**

Type	Ref Num	Description	Estimated Cost
Parts		Invoice #: 47621, Item Description: Back Glass, Adhesive, Vendor Name: Pro Auto Glass	\$0.00
Parts		Invoice #: IN000691064, Item Description: Glass Rear, Vendor Name: Ziegler, Inc.	\$0.00
Parts		Invoice #: IN000683468, Item Description: Plate, Ring, Gasket, Ball, Vendor Name: Ziegler, Inc.	\$0.00
Parts		Invoice #: IN000683660, Item Description: Mount, Pin, Spacer, Washer, Vendor Name: Ziegler, Inc.	\$0.00
Parts		Invoice #: IN000696400, Item Description: Connector, Vendor Name: Ziegler, Inc.	\$0.00

**Reconciled Purchases:**

Part Num	Description	Invoice #	Ref #	Qty Used
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**Notes:**

9/20/2022	Kyle R. Gerke	Unbolted cab and disconnect electrical to cab removed wiper arm and jacked cab up for rear glass to be replaced.
9/15/2022	Ryan J Baker	Removed and replaced front cab mounts due to bushings being worn through.
9/15/2022	Kyle R. Gerke	Disconnect all electrical to cab unbolted rear cab mounts. Got cab rigged to lift with crane. Removed lock washer on front cab pins. Had to heat pins bushing up to get them to thread out. ONce pins out lifted cab and removed rubber bushings. Cleaned up holes and installed new bushings. Lowered cab down as setting cab down it shifted and cracked back glass. Got front pins installed with antiseize on threads. Put unit back together. Painted area that was Burned from heating pins.
9/9/2022	Kyle R. Gerke	Looked up parts to rebuild hydraulic cap. Went to Ziegler and drove to job. Took cap off replaced missing parts on cap and put back together. Looked at Front cab mounts and looked up parts to get them fixed.

# Maintenance Work Order

**Work Order:** 67680  
**Priority:** Normal  
**Due Date:**

**Scheduling:**

**Status:** Closed  
**Status Date:** 9/13/2022

Mechanic Name	Schedule Date	Work Complete?
Christopher J. Murano	9/2/2022	<input checked="" type="checkbox"/>
Timothy M. Kirkman	9/2/2022	<input checked="" type="checkbox"/>

Equipment ID: 22-026	Description: Cat 963D Track Loader
Work Order Job: 21-S449	VIN #
Current Job: 24-R137	Serial # LCS02190
Current Location: 24-R137	License Plate #
Equipment Foreman:	Make: Cat
Work Order Foreman: Anthony Esch	Model: 963D
	Carrier Name:

Meter Reading: Hours: 12300 on 9/9/2022 by Timothy M. Kirkman  
 Odometer: on by  
 Last Hour Service (Lifetime): 12300 (12300) on 9/9/2022  
 Last Odometer Service (Lifetime): on

Problem Description: PM2/500hr.

**Labor Items:**

Work Code	Item Code	ST	OT	DT	
Perform	26 - PM / Service:PM's Hours:PM2/500		7.00	0.00	0.00

**Parts List:**

Part Num	Name	UOM	Qty Used	
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**Cost Ledger:**

Type	Ref Num	Description	Estimated Cost	
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**Reconciled Purchases:**

Part Num	Description	Invoice #	Ref #	Qty Used	
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# Maintenance Work Order

**Work Order:** 67680  
**Priority:** Normal  
**Due Date:**

**Notes:**

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9/9/2022 Timothy M. Kirkman Engine oil drain access cover only has one bolt left holding it on. Front pivoting cab mounts are shot. Hydraulic cap is missing the guts to it for some reason. Kyle sent a mechanic to fix cap. Left track adjuster cover has an outer bolt hole stripped . Power washed machine.

# Maintenance Work Order

**Work Order:** 67482  
**Priority:** Normal  
**Due Date:**

**Scheduling:**

**Status:** Closed  
**Status Date:** 8/30/2022

Mechanic Name	Schedule Date	Work Complete?
Kyle R. Gerke	8/25/2022	<input checked="" type="checkbox"/>

Equipment ID: 22-026 Description: Cat 963D Track Loader  
Work Order Job: 21-S449 VIN #  
Current Job: 24-R137 Serial # LCS02190  
Current Location: 24-R137 License Plate #  
Equipment Foreman: Make: Cat  
Work Order Foreman: Anthony Esch Model: 963D  
Carrier Name:

Meter Reading: Hours: 12247 on 8/30/2022 by Trevor L. Williams  
Odometer: on by  
Last Hour Service (Lifetime): 12066 (12066) on 8/2/2022  
Last Odometer Service (Lifetime): on

**Problem Description:** Fuel restriction light coming on dash.

**Labor Items:**

Work Code	Item Code	ST	OT	DT	
Replace	15 - Fuel System:Fuel Filter		1.00	0.00	0.00

**Parts List:**

Part Num	Name	UOM	Qty Used	
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**Cost Ledger:**

Type	Ref Num	Description	Estimated Cost	
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**Reconciled Purchases:**

Part Num	Description	Invoice #	Ref #	Qty Used	
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**Notes:**

8/25/2022 Kyle R. Gerke Changed all 3 fuel filters on machine. Primed system and test ran no codes came on dash.

# Maintenance Work Order

**Work Order:** 66834  
**Priority:** Normal  
**Due Date:**

**Scheduling:**

**Status:** Closed  
**Status Date:** 8/9/2022

Mechanic Name	Schedule Date	Work Complete?
Chase A. Rose	7/28/2022	<input checked="" type="checkbox"/>
Christopher J. Murano	7/28/2022	<input checked="" type="checkbox"/>
John M. Pohlman	7/28/2022	<input checked="" type="checkbox"/>
Timothy M. Kirkman	7/28/2022	<input checked="" type="checkbox"/>

Equipment ID: 22-026      Description: Cat 963D Track Loader  
Work Order Job: 21-S449      VIN #  
Current Job: 24-R137      Serial # LCS02190  
Current Location: 24-R137      License Plate #  
Equipment Foreman:      Make: Cat  
Work Order Foreman: Anthony Esch      Model: 963D  
Carrier Name:

Meter Reading:      Hours: 12066      on 8/2/2022      by Chase A. Rose  
Odometer:      on      by  
Last Hour Service (Lifetime): 12066      (12066)      on 8/2/2022  
Last Odometer Service (Lifetime):      on

Problem Description: PM1/250hr.

**Labor Items:**

Work Code	Item Code	ST	OT	DT	
Perform	26 - PM / Service:PM's Hours:PM1/250		7.00	0.00	0.00

**Parts List:**

Part Num	Name	UOM	Qty Used	
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**Cost Ledger:**

Type	Ref Num	Description	Estimated Cost	
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**Reconciled Purchases:**

Part Num	Description	Invoice #	Ref #	Qty Used	
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# Maintenance Work Order

**Work Order:** 66834  
**Priority:** Normal  
**Due Date:**

**Notes:**

8/2/2022 Chase A. Rose Cut open engine oil filter and found nothing. Left final oil had no debris in the oil, the magnetic plug had no debris and the oil looked healthy. Completed service.

# Maintenance Work Order

**Work Order:** 66913  
**Priority:** Normal  
**Due Date:**

Scheduling:

**Status:** Closed  
**Status Date:** 8/8/2022

Mechanic Name	Schedule Date	Work Complete?
Taylor J. Anderson	8/1/2022	<input checked="" type="checkbox"/>

Equipment ID: 22-026	Description: Cat 963D Track Loader
Work Order Job: 21-S449	VIN #
Current Job: 24-R137	Serial # LCS02190
Current Location: 24-R137	License Plate #
Equipment Foreman:	Make: Cat
Work Order Foreman: Anthony Esch	Model: 963D
	Carrier Name:

Meter Reading: Hours: 12093 on 8/8/2022 by Trevor L. Williams  
 Odometer: on by  
 Last Hour Service (Lifetime): 12066 (12066) on 8/2/2022  
 Last Odometer Service (Lifetime): on

**Problem Description:** Clean all cabin air filters and engine air filters.

**Labor Items:**

Work Code	Item Code	ST	OT	DT	
Clean	10 - Inspection / Cleaning:Clean Out Cab Filter, Condenser, Radiator		1.00	0.00	0.00

**Parts List:**

Part Num	Name	UOM	Qty Used	
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**Cost Ledger:**

Type	Ref Num	Description	Estimated Cost	
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**Reconciled Purchases:**

Part Num	Description	Invoice #	Ref #	Qty Used	
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**Notes:**

8/1/2022 Taylor J. Anderson 8/1/2022- All filters full. Cleaned an cabin air filters and engine air filters. Blew out cab.

# Maintenance Work Order

**Work Order:** 66505  
**Priority:** Normal  
**Due Date:**

**Scheduling:**

**Status:** Closed  
**Status Date:** 7/25/2022

Mechanic Name	Schedule Date	Work Complete?
Kyle R. Gerke	7/16/2022	<input checked="" type="checkbox"/>
John J. Lauber	7/21/2022	<input checked="" type="checkbox"/>

Equipment ID: 22-026	Description: Cat 963D Track Loader
Work Order Job: 21-S462	VIN #
Current Job: 24-R137	Serial # LCS02190
Current Location: 24-R137	License Plate #
Equipment Foreman:	Make: Cat
Work Order Foreman: Anthony Esch	Model: 963D
	Carrier Name:

Meter Reading: Hours: 12001 on 7/25/2022 by Trevor L. Williams  
 Odometer: on by  
 Last Hour Service (Lifetime): 11856 (11856) on 6/29/2022  
 Last Odometer Service (Lifetime): on

**Problem Description:** A/C not working. Right lift cylinder hoses leaking. Fuel filter alert coming up.

**Labor Items:**

Work Code	Item Code	ST	OT	DT	
Diagnose	14 - Hydraulic System:Hydraulic Fittings / Lines		1.50	0.00	0.00
Diagnose	28 - Air Conditioning / Heating System:Condenser Fan / Motor		4.00	0.00	0.00
Diagnose	28 - Air Conditioning / Heating System:Evaporator		2.00	0.00	0.00
Parts Delivery or Pickup	14 - Hydraulic System:Hydraulic Fittings / Lines		0.50	0.00	0.00
Parts Delivery or Pickup	28 - Air Conditioning / Heating System:Evaporator		0.50	0.00	0.00
Repair	28 - Air Conditioning / Heating System:Evaporator		4.00	0.00	0.00
Replace	14 - Hydraulic System:Hydraulic Fittings / Lines		2.00	0.00	0.00
Replace	15 - Fuel System:Fuel Filter		1.50	0.00	0.00

# Maintenance Work Order

**Work Order:** 66505  
**Priority:** Normal  
**Due Date:**

Parts List:

Part Num	Name	UOM	Qty Used	
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Cost Ledger:

Type	Ref Num	Description	Estimated Cost	
Parts		Invoice #: IN000624146, Item Description: Hose As, Seal, Vendor Name: Ziegler, Inc.	\$0.00	
Parts		Invoice #: IN000618221, Item Description: Coil As Evap, Accumulator, Dry, Vendor Name: Ziegler, Inc.	\$0.00	

Reconciled Purchases:

Part Num	Description	Invoice #	Ref #	Qty Used	
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## Maintenance Work Order

**Work Order:** 66505  
**Priority:** Normal  
**Due Date:**

### Notes:

- |           |                |  |
|-----------|----------------|--|
| 7/22/2022 | John J. Lauber | Picked up hoses from Ziegler. Replaced hoses. Filled hydraulic fluid. Ran machine.   |
| 7/21/2022 | John J. Lauber | Replaced fuel filters. Primed and ran machine. Found the right lift cylinder hoses leaking. Ordered hoses and went to Ziegler to pick them up. They are missing one of the fittings.   |
| 7/19/2022 | Kyle R. Gerke  | Went to Ziegler and got all parts. Drove to job had to wait for operator to load rock boxes. Recovered system. Removed lines to evaporator and removed all covers to access the accumulator. raised cab up blew out all lines and changed dryer and accumulator. Removed evaporator and installed new one. Replaced all orings on lines. Put unit back together. Did vacuum on system for 30 minutes and checked for leaks for 20 minutes no leaks. Charge system pressure holding steady 45psi on low side and 245 on high side. Checked temp in cab getting down to 58 degrees.  |
| 7/18/2022 | Kyle R. Gerke  | Right condenser fan wasn't working. If plugged fan into left side connector fan would work. Checked relays were good. Checked power at motor connector didn't have any. Checked main connector harness connector had 24 volts. Ohmed wires on short harness all checked good put pig tail from main connector to relay to watch voltage. Hooked harness up to main harness voltage stayed at 24 volts. Connect relay voltage would drop unplug relay and voltage would come back jump relay with jumper with motor hooked up would drop unplugged motor and would come back. Checked fuses found Fuse looked good but wouldn't hold amps replace with non resettable. Got voltage to stay after plugging everything in and fan motor stayed running. A/C still wasn't cooling down checked pressure both still low. Sucked system down and recharge system. Pressure were good then high side went up to 225psi and low stayed at 10psi. System has a blockage. Looked up parts and got ordered. |
| 7/16/2022 | Kyle R. Gerke  | Checked unit over would blow cold air for a little while then stop. Blew out cab filters. Evaporator wasn't draining and lines were frosting over. Took cover off and blew out evaporator. Put back together was a little better but long it ran worse it got. Check condenser blew it out found 1 fan motors were broke. Fixed wires still didn't work not getting power to one fan. Hooked gauges up both pressures were low.  |

# Maintenance Work Order

**Work Order:** 65981  
**Priority:** Normal  
**Due Date:**

Scheduling:

**Status:** Closed  
**Status Date:** 7/5/2022

Mechanic Name	Schedule Date	Work Complete?
John J. Lauber	6/22/2022	<input checked="" type="checkbox"/>

Equipment ID: 22-026	Description: Cat 963D Track Loader
Work Order Job: 22-S473	VIN #
Current Job: 24-R137	Serial # LCS02190
Current Location: 24-R137	License Plate #
Equipment Foreman:	Make: Cat
Work Order Foreman: Anthony Esch	Model: 963D
	Carrier Name:

Meter Reading: Hours: 11884 on 7/5/2022 by Kraig L. Kuhse  
 Odometer: on by  
 Last Hour Service (Lifetime): 11856 (11856) on 6/29/2022  
 Last Odometer Service (Lifetime): on

Problem Description: A/C not working all the time. Replace compressor, twice.

Labor Items:

Work Code	Item Code	ST	OT	DT	
Diagnose	28 - Air Conditioning / Heating System		1.50	0.00	0.00
Diagnose	28 - Air Conditioning / Heating System:Clutch / Compressor		1.50	0.00	0.00
Parts Delivery or Pickup	28 - Air Conditioning / Heating System:Clutch / Compressor		1.00	0.00	0.00
Replace	28 - Air Conditioning / Heating System:Clutch / Compressor		5.50	0.00	0.00

Parts List:

Part Num	Name	UOM	Qty Used	
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# Maintenance Work Order

**Work Order:** 65981  
**Priority:** Normal  
**Due Date:**

**Cost Ledger:**

Type	Ref Num	Description	Estimated Cost
Parts		Invoice #: CM000071344, Item Description: Alternator G, Vendor Name: Ziegler, Inc.	\$0.00
Parts		Invoice #: CM000084745, Item Description: PIP/PSP/GOP Returned, Vendor Name: Ziegler, Inc.	\$0.00
Parts		Invoice #: IN000590631, Item Description: Compressor G, Dryer, Vendor Name: Ziegler, Inc.	\$0.00
Parts		Invoice #: CM000075617, Item Description: PIP/PSP/GPOL Credit, Vendor Name: Ziegler, Inc.	\$0.00
Parts		Invoice #: IN000677042, Item Description: Correcting CM000075617, Vendor Name: Ziegler, Inc.	\$0.00
Parts		Invoice #: IN000597440, Item Description: Compressor G, Vendor Name: Ziegler, Inc.	\$0.00
Parts		Invoice #: IN000590551, Item Description: Alternator G, Fanbelt, Vendor Name: Ziegler, Inc.	\$0.00

**Reconciled Purchases:**

Part Num	Description	Invoice #	Ref #	Qty Used
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**Notes:**

6/29/2022	John J. Lauber	Found rubber coupler in the compressor clutch blown out. Picked up another compressor from Ziegler. Replaced compressor. Charged system. Ran machine.		
6/24/2022	John J. Lauber	Replaced compressor and air dryer. Charged system. Ran machine.		
6/23/2022	John J. Lauber	Found the compressor locked up. Ordered parts.		
6/22/2022	John J. Lauber	Checked machine over. System voltage at the clutch, both condenser fans working, and plenty of airflow in the cab. Checked charge, it was low. Evacuated the system and checked for leaks, none found. Charged system back up. Ran machine. A/C is cold.		

# Maintenance Work Order

**Work Order:** 65976  
**Priority:** Normal  
**Due Date:**

**Scheduling:**

**Status:** Closed  
**Status Date:** 7/5/2022

Mechanic Name	Schedule Date	Work Complete?
Chase A. Rose	6/22/2022	<input checked="" type="checkbox"/>
Christopher J. Murano	6/22/2022	<input checked="" type="checkbox"/>
John M. Pohlman	6/22/2022	<input checked="" type="checkbox"/>
Timothy M. Kirkman	6/22/2022	<input checked="" type="checkbox"/>

Equipment ID: 22-026	Description: Cat 963D Track Loader
Work Order Job: 22-S473	VIN #
Current Job: 24-R137	Serial # LCS02190
Current Location: 24-R137	License Plate #
Equipment Foreman:	Make: Cat
Work Order Foreman: Anthony Esch	Model: 963D
	Carrier Name:

Meter Reading: Hours: 11856 on 6/29/2022 by Christopher J. Murano

Odometer: on by

Last Hour Service (Lifetime): 11856 (11856) on 6/29/2022

Last Odometer Service (Lifetime): on

Problem Description: PM4/2000hr.

**Labor Items:**

Work Code	Item Code	ST	OT	DT	
Perform	26 - PM / Service:PM's Hours:PM4/2,000		10.00	0.00	0.00

**Parts List:**

Part Num	Name	UOM	Qty Used	
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**Cost Ledger:**

Type	Ref Num	Description	Estimated Cost	
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**Reconciled Purchases:**

Part Num	Description	Invoice #	Ref #	Qty Used	
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# Maintenance Work Order

**Work Order:** 65976  
**Priority:** Normal  
**Due Date:**

Notes:

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# Maintenance Work Order

**Work Order:** 65704  
**Priority:** Normal  
**Due Date:**

**Scheduling:**

**Status:** Closed  
**Status Date:** 6/21/2022

Mechanic Name	Schedule Date	Work Complete?
John J. Lauber	6/10/2022	<input checked="" type="checkbox"/>

Equipment ID: 22-026	Description: Cat 963D Track Loader
Work Order Job: 22-S473	VIN #
Current Job: 24-R137	Serial # LCS02190
Current Location: 24-R137	License Plate #
Equipment Foreman:	Make: Cat
Work Order Foreman: Anthony Esch	Model: 963D
	Carrier Name:

Meter Reading: Hours: 11802 on 6/18/2022 by Kraig L. Kuhse  
 Odometer: on by  
 Last Hour Service (Lifetime): 11631 (11631) on 5/21/2022  
 Last Odometer Service (Lifetime): on

**Problem Description:** Replace front step. Replace fuel filters. Replace teeth on bucket.

**Labor Items:**

Work Code	Item Code	ST	OT	DT	
Replace	15 - Fuel System:Fuel Filter		1.00	0.00	0.00
Replace	23 - Cutting Edge / Teeth:Teeth, Pins and Retainers		1.00	0.00	0.00
Replace	27 - Cab / Body:Step and Mounting		1.00	0.00	0.00

**Parts List:**

Part Num	Name	UOM	Qty Used	
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**Cost Ledger:**

Type	Ref Num	Description	Estimated Cost
Parts		Invoice #: IN000578148, Item Description: Tip-General, Retainer-Get, Vendor Name: Ziegler, Inc.	\$0.00
Parts		Invoice #: IN000574706, Item Description: Step As, Washer-Hard, Bolt-Hex, Vendor Name: Ziegler, Inc.	\$0.00

**Reconciled Purchases:**

Part Num	Description	Invoice #	Ref #	Qty Used	
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# Maintenance Work Order

**Work Order:** 65704  
**Priority:** Normal  
**Due Date:**

**Notes:**

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6/14/2022      John J. Lauber      Replaced left step on quick attach. Replaced fuel filters. Replaced all teeth and retainers.

# Maintenance Work Order

**Work Order:** 65340  
**Priority:** Normal  
**Due Date:**

**Scheduling:**

**Status:** Closed  
**Status Date:** 5/31/2022

Mechanic Name	Schedule Date	Work Complete?
John J. Lauber	5/24/2022	<input checked="" type="checkbox"/>

Equipment ID: 22-026	Description: Cat 963D Track Loader
Work Order Job: 21-S454	VIN #
Current Job: 24-R137	Serial # LCS02190
Current Location: 24-R137	License Plate #
Equipment Foreman:	Make: Cat
Work Order Foreman: Anthony Esch	Model: 963D
	Carrier Name:

Meter Reading: Hours: 11660 on 5/27/2022 by Jeff Lewis  
 Odometer: on by  
 Last Hour Service (Lifetime): 11631 (11631) on 5/21/2022  
 Last Odometer Service (Lifetime): on

**Problem Description:** Engine oil dipstick tube is loose.

**Labor Items:**

Work Code	Item Code	ST	OT	DT	
Diagnose	11 - Engine:Dipstick / Filler Cap		0.50	0.00	0.00
Reseal	11 - Engine:Dipstick / Filler Cap		1.50	0.00	0.00

**Parts List:**

Part Num	Name	UOM	Qty Used	
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**Cost Ledger:**

Type	Ref Num	Description	Estimated Cost
Parts		Invoice #: IN000552102, Item Description: Seal, Vendor Name: Ziegler, Inc.	\$0.00

**Reconciled Purchases:**

Part Num	Description	Invoice #	Ref #	Qty Used
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# Maintenance Work Order

**Work Order:** 65340  
**Priority:** Normal  
**Due Date:**

**Notes:**

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5/24/2022      John J. Lauber      Found dipstick tube seal broken down. Picked up new seal from Ziegler. Resealed dipstick tube.

# Maintenance Work Order

**Work Order:** 65210  
**Priority:** Normal  
**Due Date:**

**Scheduling:**

**Status:** Closed  
**Status Date:** 5/24/2022

Mechanic Name	Schedule Date	Work Complete?
Chase A. Rose	5/18/2022	<input checked="" type="checkbox"/>
Christopher J. Murano	5/18/2022	<input checked="" type="checkbox"/>
John M. Pohlman	5/18/2022	<input checked="" type="checkbox"/>
Timothy M. Kirkman	5/18/2022	<input checked="" type="checkbox"/>

Equipment ID: 22-026	Description: Cat 963D Track Loader
Work Order Job: 21-S454	VIN #
Current Job: 24-R137	Serial # LCS02190
Current Location: 24-R137	License Plate #
Equipment Foreman:	Make: Cat
Work Order Foreman: Anthony Esch	Model: 963D
	Carrier Name:

Meter Reading: Hours: 11631 on 5/21/2022 by Christopher J. Murano  
 Odometer: on by  
 Last Hour Service (Lifetime): 11631 (11631) on 5/21/2022  
 Last Odometer Service (Lifetime): on

**Problem Description:** PM1/250hr. Inspect and save engine oil filter, advice of findings.

**Labor Items:**

Work Code	Item Code	ST	OT	DT	
Perform	26 - PM / Service:PM's Hours:PM1/250		6.00	0.00	0.00

**Parts List:**

Part Num	Name	UOM	Qty Used	
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**Cost Ledger:**

Type	Ref Num	Description	Estimated Cost	
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**Reconciled Purchases:**

Part Num	Description	Invoice #	Ref #	Qty Used	
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# Maintenance Work Order

**Work Order:** 65210  
**Priority:** Normal  
**Due Date:**

**Notes:**

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5/21/2022 Christopher J. Murano Dipstick tub is loose tried tightening the base up but it was tight. The oil drain access has one nut that is striped or worn, only has 1 bolt holding the cover on. Washed machine.

# Maintenance Work Order

**Work Order:** 65181  
**Priority:** Normal  
**Due Date:**

**Scheduling:**

**Status:** Closed  
**Status Date:** 5/23/2022

Mechanic Name	Schedule Date	Work Complete?
Kyle R. Gerke	5/17/2022	<input checked="" type="checkbox"/>

Equipment ID: 22-026	Description: Cat 963D Track Loader
Work Order Job: 21-S454	VIN #
Current Job: 24-R137	Serial # LCS02190
Current Location: 24-R137	License Plate #
Equipment Foreman:	Make: Cat
Work Order Foreman: Anthony Esch	Model: 963D
	Carrier Name:

Meter Reading: Hours: 11631 on 5/21/2022 by Christopher J. Murano

Odometer: on by  
 Last Hour Service (Lifetime): 11631 (11631) on 5/21/2022  
 Last Odometer Service (Lifetime): on

Problem Description: Fuel restriction light came on.

**Labor Items:**

Work Code	Item Code	ST	OT	DT	
Repair	15 - Fuel System:Fuel Filter		1.50	0.00	0.00

**Parts List:**

Part Num	Name	UOM	Qty Used	
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**Cost Ledger:**

Type	Ref Num	Description	Estimated Cost	
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**Reconciled Purchases:**

Part Num	Description	Invoice #	Ref #	Qty Used	
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**Notes:**

5/17/2022 Kyle R. Gerke Removed and changed all fuel filters on unit. Inspected filters didnt see any debris in filters. Let operator blow out cab with air compressor.

# Maintenance Work Order

**Work Order:** 64997  
**Priority:** Normal  
**Due Date:**

**Scheduling:**

**Status:** Closed  
**Status Date:** 5/17/2022

Mechanic Name	Schedule Date	Work Complete?
Christopher J. Murano	5/10/2022	<input checked="" type="checkbox"/>
Timothy M. Kirkman	5/10/2022	<input checked="" type="checkbox"/>
Travis B. Larkins	5/11/2022	<input checked="" type="checkbox"/>

Equipment ID: 22-026	Description: Cat 963D Track Loader
Work Order Job: 21-S454	VIN #
Current Job: 24-R137	Serial # LCS02190
Current Location: 24-R137	License Plate #
Equipment Foreman:	Make: Cat
Work Order Foreman: Anthony Esch	Model: 963D
	Carrier Name:

Meter Reading: Hours: 11531 on 5/10/2022 by Timothy M. Kirkman  
 Odometer: on by  
 Last Hour Service (Lifetime): 11404 (11404) on 2/15/2022  
 Last Odometer Service (Lifetime): on

**Problem Description:** Take SOS of engine oil, replace engine oil filter and inspect for fine aluminum. Check A/C.

**Labor Items:**

Work Code	Item Code	ST	OT	DT	
Inspect	11 - Engine:Engine Oil Filter		4.00	0.00	0.00
Inspect	28 - Air Conditioning / Heating System:Clutch / Compressor		1.00	0.00	0.00

**Parts List:**

Part Num	Name	UOM	Qty Used	
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**Cost Ledger:**

Type	Ref Num	Description	Estimated Cost	
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**Reconciled Purchases:**

Part Num	Description	Invoice #	Ref #	Qty Used	
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# Maintenance Work Order

**Work Order:** 64997  
**Priority:** Normal  
**Due Date:**

Notes:

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5/16/2022 Timothy M. Kirkman Filter is worth looking at- cut apart and on bench.

5/12/2022 Travis B. Larkins 5-11  
while at job site, asked me to check ac, blew filters out and removed box from in front of cab  
filter vent, machine was 46 degrees at vents, pressures were good on guages

5/10/2022 Timothy M. Kirkman Pulled sample from warm machine. Changed engine oil filter. Will inspect filter and advise.

# Maintenance Work Order

**Work Order:** 64675  
**Priority:** Normal  
**Due Date:**

**Scheduling:**

**Status:** Closed  
**Status Date:** 5/2/2022

Mechanic Name	Schedule Date	Work Complete?
Kyle R. Gerke	4/26/2022	<input checked="" type="checkbox"/>

Equipment ID: 22-026 Description: Cat 963D Track Loader  
Work Order Job: 21-S464 VIN #  
Current Job: 24-R137 Serial # LCS02190  
Current Location: 24-R137 License Plate #  
Equipment Foreman: Make: Cat  
Work Order Foreman: Anthony Esch Model: 963D  
Carrier Name:

Meter Reading: Hours: 11456 on 4/28/2022 by Kraig L. Kuhse  
Odometer: on by  
Last Hour Service (Lifetime): 11404 (11404) on 2/15/2022  
Last Odometer Service (Lifetime): on

Problem Description: Need engine oil added.

**Labor Items:**

Work Code	Item Code	ST	OT	DT	
Add Fluid	11 - Engine:Engine Oil		0.25	0.00	0.00

**Parts List:**

Part Num	Name	UOM	Qty Used	
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**Cost Ledger:**

Type	Ref Num	Description	Estimated Cost	
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**Reconciled Purchases:**

Part Num	Description	Invoice #	Ref #	Qty Used	
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**Notes:**

4/26/2022 Kyle R. Gerke Add engine oil to engine.

# Maintenance Work Order

**Work Order:** 63653  
**Priority:** Normal  
**Due Date:**

**Scheduling:**

**Status:** Closed  
**Status Date:** 4/28/2022

Mechanic Name	Schedule Date	Work Complete?
Mark E. McNaughton	2/21/2022	<input checked="" type="checkbox"/>
Jacob H. Haws	3/31/2022	<input checked="" type="checkbox"/>

Equipment ID: 22-026	Description: Cat 963D Track Loader
Work Order Job: 21-S449	VIN #
Current Job: 24-R137	Serial # LCS02190
Current Location: 24-R137	License Plate #
Equipment Foreman:	Make: Cat
Work Order Foreman: Anthony Esch	Model: 963D
	Carrier Name:

Meter Reading: Hours: 11409 on 2/16/2022 by Trevor L. Williams  
 Odometer: on by  
 Last Hour Service (Lifetime): 11404 (11404) on 2/15/2022  
 Last Odometer Service (Lifetime): on

**Problem Description:** Left final drive over full on oil. Replace LR carrier roller. Inspect for aluminum in engine oil filter. Replace high pressure fuel pump.

**Labor Items:**

Work Code	Item Code	ST	OT	DT	
Inspect	10 - Inspection / Cleaning:Repair Inspection		6.50	0.00	0.00
Inspect	11 - Engine		7.00	0.00	0.00
Inspect	11 - Engine:Engine Oil Pump		6.00	0.00	0.00
Install	15 - Fuel System:Fuel Injection Pump		6.00	0.00	0.00
Remove	15 - Fuel System:Fuel Injection Pump		9.00	0.00	0.00
Repair	18 - Final Drive:Left Hand		15.00	0.00	0.00
Replace	17 - Undercarriage:Carrier Rollers		1.50	0.00	0.00

**Parts List:**

Part Num	Name	UOM	Qty Used	
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# Maintenance Work Order

**Work Order:** 63653  
**Priority:** Normal  
**Due Date:**

**Cost Ledger:**

Type	Ref Num	Description	Estimated Cost
Parts		Invoice #: IN000444515, Item Description: Seal, Vendor Name: Ziegler, Inc.	\$0.00
Parts		Invoice #: IN000467097, Item Description: Gasket-Pump, Vendor Name: Ziegler, Inc.	\$0.00
Parts		Invoice #: IN000441415, Item Description: Seal A, Seal Oring, Seal, Vendor Name: Ziegler, Inc.	\$0.00
Parts		Invoice #: IN000464936, Item Description: Gasket-Cover, Vendor Name: Ziegler, Inc.	\$0.00
Parts		Invoice #: IN000444823, Item Description: Pump As-Oil, Gasket, Vendor Name: Ziegler, Inc.	\$0.00
Parts		Invoice #: IN000461396, Item Description: Limiter, Vendor Name: Ziegler, Inc.	\$0.00
Parts		Invoice #: CM000059132, Item Description: Pump G Fuel-Worn C, Vendor Name: Ziegler, Inc.	\$0.00
Parts		Invoice #: IN000441447, Item Description: Bolt-Track, Vendor Name: Ziegler, Inc.	\$0.00
Parts		Invoice #: CM000054980A, Item Description: Bolt-Track, Vendor Name: Ziegler, Inc.	\$0.00
Parts		Invoice #: CM000056541A, Item Description: Gasket-Cover, Gasket, Vendor Name: Ziegler, Inc.	\$0.00
Parts		Invoice #: IN000461924, Item Description: Bolt-Track, Vendor Name: Ziegler, Inc.	\$0.00
Parts		Invoice #: IN000444817, Item Description: Roller Gp, Vendor Name: Ziegler, Inc.	\$0.00
Parts		Invoice #: IN000444528, Item Description: Housing-Brak, Vendor Name: Ziegler, Inc.	\$0.00
Parts		Invoice #: IN000445109, Item Description: Roller Gp Df, Vendor Name: Ziegler, Inc.	\$0.00
Parts		Invoice #: IN000448290, Item Description: Seal-Ring, Vendor Name: Ziegler, Inc.	\$0.00
Parts		Invoice #: IN000464107, Item Description: Pump G Fuel, Gskt-Cover, Gaskt, Vendor Name: Ziegler, Inc.	\$0.00

**Reconciled Purchases:**

Part Num	Description	Invoice #	Ref #	Qty Used
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# Maintenance Work Order

**Work Order:** 63653  
**Priority:** Normal  
**Due Date:**

## Notes:

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3/31/2022	Jacob H. Haws	Cleaned bay.
3/31/2022	Mark E. McNaughton	Install belly pans and sheet metal
3/21/2022	Mark E. McNaughton	Finish up installing high pressure pump
3/17/2022	Mark E. McNaughton	Install OR pump.
3/16/2022	Mark E. McNaughton	Remove high pressure pump and inspect
3/15/2022	Mark E. McNaughton	Install new oil pump and put pan back on Replace bottom roller on right side third one from the front.Started too wrap track.
3/8/2022	Mark E. McNaughton	Turn engine over and try too look at sleeves and piston skirts
3/3/2022	Mark E. McNaughton	Re-seal left brake with a new housing and seals Install left final back on loader Replace left rear carrier roller
3/1/2022	Mark E. McNaughton	Remove left final and brake assembly. Disassemble brake Needs new housing for the brake Remove oil pan too inspect oil pump Needs new pump.

# Maintenance Work Order

**Work Order:** 64394  
**Priority:** Normal  
**Due Date:**

**Scheduling:**

**Status:** Closed  
**Status Date:** 4/25/2022

Mechanic Name	Schedule Date	Work Complete?
Taylor J. Anderson	4/12/2022	<input checked="" type="checkbox"/>
Mark E. McNaughton	4/13/2022	<input checked="" type="checkbox"/>
Jacob H. Haws	4/18/2022	<input checked="" type="checkbox"/>

Equipment ID: 22-026	Description: Cat 963D Track Loader
Work Order Job: 21-S464	VIN #
Current Job: 24-R137	Serial # LCS02190
Current Location: 24-R137	License Plate #
Equipment Foreman:	Make: Cat
Work Order Foreman: Anthony Esch	Model: 963D
	Carrier Name:

Meter Reading: Hours: 11419 on 4/25/2022 by Kraig L. Kuhse  
 Odometer: on by  
 Last Hour Service (Lifetime): 11404 (11404) on 2/15/2022  
 Last Odometer Service (Lifetime): on

**Problem Description:** Machine will not move on left side, left final full of hydraulic oil. Right side engine enclosure latch spring broken. Left side drive motor shaft seal bad.

**Labor Items:**

Work Code	Item Code	ST	OT	DT	
Diagnose	18 - Final Drive:Left Hand		9.50	0.00	0.00
Diagnose	18 - Final Drive:Right Hand		11.00	0.00	0.00
Rebuild	12 - Transmission / Power Train:Drum Final Drive and Brake Assembly		22.00	0.00	0.00
Repair	27 - Cab / Body:Door Latch / Lock		1.50	0.00	0.00

**Parts List:**

Part Num	Name	UOM	Qty Used	
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# Maintenance Work Order

**Work Order:** 64394  
**Priority:** Normal  
**Due Date:**

**Cost Ledger:**

Type	Ref Num	Description	Estimated Cost
Parts		Invoice #: IN000502559, Item Description: Seal O Ring, Seal, Vendor Name: Ziegler, Inc.	\$0.00
Parts		Invoice #: IN000508450, Item Description: Latch As, Vendor Name: Ziegler, Inc.	\$0.00
Parts		Invoice #: IN000499222, Item Description: Seal-Ring, Seal A, Seal, Vendor Name: Ziegler, Inc.	\$0.00
Parts		Invoice #: IN000502602, Item Description: Seal-Ring, Seal, Vendor Name: Ziegler, Inc.	\$0.00
Parts		Invoice #: CM000063672D, Item Description: Seal O-ring, Vendor Name: Ziegler, Inc.	\$0.00
Parts		Invoice #: IN000498030, Item Description: Seal-Shaft, Ring, Vendor Name: Ziegler, Inc.	\$0.00
Parts		Invoice #: IN000502569, Item Description: Seal-Shaft, Vendor Name: Ziegler, Inc.	\$0.00
Parts		Invoice #: IN000500553, Item Description: Plate, Disc-Frictio, Spring, , Vendor Name: Ziegler, Inc.	\$0.00
Parts		Invoice #: IN000503018, Item Description: Bolt-Track, Vendor Name: Ziegler, Inc.	\$0.00

**Reconciled Purchases:**

Part Num	Description	Invoice #	Ref #	Qty Used
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## Maintenance Work Order

**Work Order:** 64394  
**Priority:** Normal  
**Due Date:**

### Notes:

4/21/2022 Taylor J. Anderson 4/21/2022- Right side engine enclosure door will not latch. Drove out to machine and adjusted striker, door secures but spring is broken internal of latch. Ordered new latch and picked up from Ziegler. Removed old latch and installed new.

4/19/2022 Mark E. McNaughton Install both tracks Check brake psi it was ok Install all guards and test run

4/19/2022 Jacob H. Haws Helped wrap tracks. Installed pans. Cleaned bay.

4/18/2022 Mark E. McNaughton Rebuild both brake assemblies and install both finals

4/18/2022 Jacob H. Haws Helped hang finals and hooked up hyd motors.

4/14/2022 Mark E. McNaughton Remove right final and disassemble brake too inspect.

4/13/2022 Mark E. McNaughton Remove left final drive and found that the motor seal is out

4/12/2022 Taylor J. Anderson 4/12/2022- Left final drive locking up per operator. Got to machine and operator said after the machine stopped moving noticed hydraulic tank is out of oil. Added 8 gallons of oil to hydraulic tank and inspected left final drive. Found final to be completely full of all the oil that was drained from the tank. Drained oil down to allow operator to get machine up to camp for repairs. Brake motor seals or motor shaft seal is bad and feeding into final drive.

# Maintenance Work Order

**Work Order:** 63583  
**Priority:** Normal  
**Due Date:**

**Scheduling:**

**Status:** Closed  
**Status Date:** 2/22/2022

Mechanic Name	Schedule Date	Work Complete?
Christopher J. Murano	2/14/2022	<input checked="" type="checkbox"/>
Timothy M. Kirkman	2/14/2022	<input checked="" type="checkbox"/>

Equipment ID: 22-026	Description: Cat 963D Track Loader
Work Order Job: 21-S449	VIN #
Current Job: 24-R137	Serial # LCS02190
Current Location: 24-R137	License Plate #
Equipment Foreman:	Make: Cat
Work Order Foreman: Anthony Esch	Model: 963D
	Carrier Name:

Meter Reading: Hours: 11404 on 2/15/2022 by Timothy M. Kirkman  
 Odometer: on by  
 Last Hour Service (Lifetime): 11404 (11404) on 2/15/2022  
 Last Odometer Service (Lifetime): on

Problem Description: PM2/500hr.

**Labor Items:**

Work Code	Item Code	ST	OT	DT	
Perform	26 - PM / Service:PM's Hours:PM2/500		7.00	0.00	0.00

**Parts List:**

Part Num	Name	UOM	Qty Used	
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**Cost Ledger:**

Type	Ref Num	Description	Estimated Cost	
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**Reconciled Purchases:**

Part Num	Description	Invoice #	Ref #	Qty Used	
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# Maintenance Work Order

**Work Order:** 63583  
**Priority:** Normal  
**Due Date:**

**Notes:**

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2/16/2022 Timothy M. Kirkman Hose on the left quick connect is leaking. Left final is completely full- 3 hog pans over full. Engine oil drain access cover only has one bolt with threads left. Power washed machine.

# Maintenance Work Order

**Work Order:** 63457  
**Priority:** Normal  
**Due Date:**

**Scheduling:**

**Status:** Closed  
**Status Date:** 2/8/2022

Mechanic Name	Schedule Date	Work Complete?
Travis B. Larkins	1/31/2022	<input checked="" type="checkbox"/>

Equipment ID: 22-026	Description: Cat 963D Track Loader
Work Order Job: 21-A291	VIN #
Current Job: 24-R137	Serial # LCS02190
Current Location: 24-R137	License Plate #
Equipment Foreman:	Make: Cat
Work Order Foreman: Anthony Esch	Model: 963D
	Carrier Name:

Meter Reading: Hours: 11338 on 2/2/2022 by Trevor L. Williams  
 Odometer: on by  
 Last Hour Service (Lifetime): 11195 (11195) on 9/22/2021  
 Last Odometer Service (Lifetime): on

Problem Description: Fuel filters restricted.

**Labor Items:**

Work Code	Item Code	ST	OT	DT	
Replace	15 - Fuel System:Fuel Filter		2.00	0.00	0.00

**Parts List:**

Part Num	Name	UOM	Qty Used	

**Cost Ledger:**

Type	Ref Num	Description	Estimated Cost
Parts		Invoice #: IN000410611, Item Description: Filter As, Vendor Name: Ziegler, Inc.	\$0.00

**Reconciled Purchases:**

Part Num	Description	Invoice #	Ref #	Qty Used	

**Notes:**

2/1/2022 Travis B. Larkins 1-31  
 drove to cat and picked up filters, drove to booneville and replaced all 3 fuel filters

# Maintenance Work Order

**Work Order:** 61745  
**Priority:** Normal  
**Due Date:**

**Scheduling:**

**Status:** Closed  
**Status Date:** 12/21/2021

Mechanic Name	Schedule Date	Work Complete?
Tanner J. Rose	12/2/2021	<input checked="" type="checkbox"/>
Jacob H. Haws	12/8/2021	<input checked="" type="checkbox"/>
Taylor J. Anderson	12/13/2021	<input checked="" type="checkbox"/>

Equipment ID: 22-026	Description: Cat 963D Track Loader
Work Order Job: 21-Q173	VIN #
Current Job: 24-R137	Serial # LCS02190
Current Location: 24-R137	License Plate #
Equipment Foreman:	Make: Cat
Work Order Foreman: Anthony Esch	Model: 963D
	Carrier Name:

Meter Reading: Hours: 11283 on 12/13/2021 by Jeff Lewis  
 Odometer: on by  
 Last Hour Service (Lifetime): 11195 (11195) on 9/22/2021  
 Last Odometer Service (Lifetime): on

**Problem Description:** Replace door seals. Diagnose wont start. Replace batteries. Low on hydraulic oil. Coupler lines blown on quick attach.

**Labor Items:**

Work Code	Item Code	ST	OT	DT	
Add Fluid	14 - Hydraulic System:Hydraulic Oil		0.50	0.00	0.00
Diagnose	13 - Lighting / Charging / Starting System:Batteries		1.00	0.00	0.00
Diagnose	14 - Hydraulic System:Quick Attach Cylinder, Hose, Valve, Wiring		1.00	0.00	0.00
Inspect	14 - Hydraulic System:Hydraulic Fittings / Lines		0.50	0.00	0.00
Parts Delivery or Pickup	14 - Hydraulic System:Quick Attach Cylinder, Hose, Valve, Wiring		1.00	0.00	0.00
Replace	13 - Lighting / Charging / Starting System:Batteries		2.00	0.00	0.00
Replace	14 - Hydraulic System:Quick Attach Cylinder, Hose, Valve, Wiring		1.00	0.00	0.00
Replace	27 - Cab / Body:Door Latch / Lock		1.00	0.00	0.00

# Maintenance Work Order

**Work Order:** 61745  
**Priority:** Normal  
**Due Date:**

## Parts List:

Part Num	Name	UOM	Qty Used
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## Cost Ledger:

Type	Ref Num	Description	Estimated Cost
Parts		Invoice #: IN000357807, Item Description: Hose As, Vendor Name: Ziegler, Inc.	\$0.00
Parts		Invoice #: IN000352498, Item Description: Battery, Vendor Name: Ziegler, Inc.	\$0.00
Parts		Invoice #: IN000345727, Item Description: Seal, Vendor Name: Ziegler, Inc.	\$0.00

## Reconciled Purchases:

Part Num	Description	Invoice #	Ref #	Qty Used
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## Notes:

12/15/2021	Taylor J. Anderson	12/13/2021- Machine blew quick tach hoses. Drove to machine and inspected hoses, found hoses that go between two cylinders was blown. Ordered hoses and went to Ziegler to pick up. Drove back to the machine and replaced hoses, operated machine to verify correct operation.		
12/13/2021	Taylor J. Anderson	12/13/2021- Machine is low on hydraulic oil. Add oil and inspected machine for any leaks, no leaks found.		
12/8/2021	Jacob H. Haws	Looked at machine for no starting found bad batt. Replaced batt checked operation ok. Replaced both cab door seals.		

# Maintenance Work Order

**Work Order:** 61471  
**Priority:** Normal  
**Due Date:**

**Scheduling:**

**Status:** Closed  
**Status Date:** 11/22/2021

Mechanic Name	Schedule Date	Work Complete?
John J. Lauber	11/15/2021	<input checked="" type="checkbox"/>

Equipment ID: 22-026	Description: Cat 963D Track Loader
Work Order Job: 21-B217	VIN #
Current Job: 24-R137	Serial # LCS02190
Current Location: 24-R137	License Plate #
Equipment Foreman:	Make: Cat
Work Order Foreman: Anthony Esch	Model: 963D
	Carrier Name:

Meter Reading: Hours: 11258 on 11/22/2021 by Trevor L. Williams  
 Odometer: on by  
 Last Hour Service (Lifetime): 11195 (11195) on 9/22/2021  
 Last Odometer Service (Lifetime): on

**Problem Description:** Cannot grease dogbone, installed in the wrong position.

**Labor Items:**

Work Code	Item Code	ST	OT	DT	
Adjust	16 - Chassis / Suspension:Loader r Frame		1.00	0.00	0.00

**Parts List:**

Part Num	Name	UOM	Qty Used	
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**Cost Ledger:**

Type	Ref Num	Description	Estimated Cost	
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**Reconciled Purchases:**

Part Num	Description	Invoice #	Ref #	Qty Used	
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**Notes:**

11/15/2021 John J. Lauber Rotated the dogbone.

# Maintenance Work Order

**Work Order:** 60416  
**Priority:** Normal  
**Due Date:**

**Scheduling:**

**Status:** Closed  
**Status Date:** 10/12/2021

Mechanic Name	Schedule Date	Work Complete?
Tanner J. Rose	9/22/2021	<input checked="" type="checkbox"/>
Taylor J. Anderson	9/21/2021	<input checked="" type="checkbox"/>
Jacob H. Haws	9/27/2021	<input checked="" type="checkbox"/>
Wade J. Smith	10/4/2021	<input checked="" type="checkbox"/>
Mark E. McNaughton	10/5/2021	<input checked="" type="checkbox"/>

Equipment ID:	22-026	Description:	Cat 963D Track Loader
Work Order Job:	21-S428	VIN #	
Current Job:	24-R137	Serial #	LCS02190
Current Location:	24-R137	License Plate #	
Equipment Foreman:		Make:	Cat
Work Order Foreman:	Anthony Esch	Model:	963D
		Carrier Name:	

Meter Reading: Hours: 11198 on 9/22/2021 by Kraig L. Kuhse  
 Odometer: on by  
 Last Hour Service (Lifetime): 11195 (11195) on 9/22/2021  
 Last Odometer Service (Lifetime): on

**Problem Description:** Repair inspection. Quick attach lower pins wore out. Ziegler line bored loader arms and quick tach at our shop. Bottom rollers broken. Banana is cracked at the weld on the top bore for the tilt cylinder. Hydraulic filter plugged code coming up.

**Labor Items:**

Work Code	Item Code	ST	OT	DT	
Diagnose	13 - Lighting / Charging / Starting System:Cable, Terminals and Wiring		3.25	0.00	0.00
Diagnose	14 - Hydraulic System:Hydraulic Gauge, Remote, Sensor, Sender, Wiring		1.00	0.00	0.00
Inspect	10 - Inspection / Cleaning:Repair Inspection		4.00	0.00	0.00
Repair	25 - Attachments:Quick Attach for Bucket / Attachment		17.50	0.00	0.00
Replace	16 - Chassis / Suspension:Pin, Bushing, Bearing and Retainer		1.00	0.00	0.00
Replace	17 - Undercarriage:Bottom Rollers		12.00	0.00	0.00

# Maintenance Work Order

**Work Order:** 60416  
**Priority:** Normal  
**Due Date:**

**Parts List:**

Part Num	Name	UOM	Qty Used
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**Cost Ledger:**

Type	Ref Num	Description	Estimated Cost
Parts		Invoice #: IN000265963, Item Description: Rod, Vendor Name: Ziegler, Inc.	\$0.00
Parts		Invoice #: SI000082892, Item Description: Loader Frame, Quick Coupler, Vendor Name: Ziegler, Inc.	\$0.00
Parts		Invoice #: IN000267388, Item Description: Bearing, Vendor Name: Ziegler, Inc.	\$0.00
Parts		Invoice #: IN000261395, Item Description: Pin As, Bearing, Washer, Seal,, Vendor Name: Ziegler, Inc.	\$0.00
Parts		Invoice #: IN000264241, Item Description: Rod, Tube, Nut, Washer, Vendor Name: Ziegler, Inc.	\$0.00
Parts		Invoice #: SI000076551, Item Description: Roller Gp Df, Vendor Name: Ziegler, Inc.	\$0.00
Parts		Invoice #: IN000258953, Item Description: Step As, Vendor Name: Ziegler, Inc.	\$0.00
Parts		Invoice #: IN000266306, Item Description: Washer, Vendor Name: Ziegler, Inc.	\$0.00
Parts		Invoice #: SI000078681, Item Description: Track Roller, Vendor Name: Ziegler, Inc.	\$0.00

**Reconciled Purchases:**

Part Num	Description	Invoice #	Ref #	Qty Used
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## Maintenance Work Order

**Work Order:** 60416  
**Priority:** Normal  
**Due Date:**

### Notes:

- 10/5/2021 Mark E. McNaughton Install sheet metal on unit
- 10/5/2021 Wade J. Smith Repair cracks dogbone. Quick attach frame had heavy wear where bucket hooks hit cross tube. Built up wear spots with weld. Parked machine on berm.
- 10/1/2021 Tanner J. Rose 10/1/2021 - Inspected machine for broken wires, tested sensors and wiring, everything checked out. Replaced hydraulic filters and tested machine. Code went away until I wiggled wire loom. Found bad ground. Tightened up ground and cleared codes. Parked in the wash bay to get cleaned.
- 10/1/2021 Tanner J. Rose 9/30/2021 - Install new bushing in dogbone, installed dogbone. Ran machine found hydraulic filter code coming up.
- 9/29/2021 Jacob H. Haws Finished shimming quick attach and greased pins. Cleaned up quick attach paws and installed and hooked up and greased. Installed one bearing and seals on one end of dog bone waiting on other bearing to show up to finish. Hooked up lap top scanned codes for quick attach and hydraulic tank oil filter plugged. e879 {1} hydraulic tank oil filter plugged. e262 {2} low quick coupler pressure. doing some research on codes.
- 9/28/2021 Tanner J. Rose Helped install bottom rollers/guards.
- 9/28/2021 Jacob H. Haws Cleaned up all holes with tap for rollers that where off and guards and cleaned all hardware up. Installed roller 6 and 7 on left side and torqued. Installed roller 7 on right side and torque. Installed guards fought them a little bit. Started putting quick attach on but need more parts.
- 9/27/2021 Jacob H. Haws Removed rear guards on both sides. Removed roller 6 and 7 on left side they are both shot. Removed roller 7 on right side it is shot also.
- 9/24/2021 Taylor J. Anderson 9/21/2021- Inspected loader tips for wear due to operator stating the bucket seems like it is side shifting when lowering into a pile. Removed left side pin and found bearings to be gone, unit is coming to shop for machine work and new bearings.
- 9/23/2021 Tanner J. Rose 9/23/2021 - Removed quiktach pins and cylinders. Took to wash bay and washed out hole that was packed with dirt. Cleaned up mess and set back on table to be repaired by ziegler.
- 9/22/2021 Tanner J. Rose 9/22/2021 - 11,196 hrs - Pulled loader into shop inspected quiktach for play. Quiktach and dog bone were very loose. Removed quiktach and found the bearing on the left side grenaded and took out the bore on the quiktach and loader arm. The right side began to crack also. Quiktach and loader arms will need to be line bored. Washed quik tach and dogbone. Removed bearings from dog bone. Ordered parts. Inspected the rest of the machine.

# Maintenance Work Order

**Work Order:** 60326  
**Priority:** Normal  
**Due Date:**

**Scheduling:**

**Status:** Closed  
**Status Date:** 9/28/2021

Mechanic Name	Schedule Date	Work Complete?
Chase A. Rose	9/20/2021	<input checked="" type="checkbox"/>
Christopher J. Murano	9/20/2021	<input checked="" type="checkbox"/>
John M. Pohlman	9/20/2021	<input checked="" type="checkbox"/>
Timothy M. Kirkman	9/20/2021	<input checked="" type="checkbox"/>

Equipment ID: 22-026	Description: Cat 963D Track Loader
Work Order Job: 21-S428	VIN #
Current Job: 24-R137	Serial # LCS02190
Current Location: 24-R137	License Plate #
Equipment Foreman:	Make: Cat
Work Order Foreman: Anthony Esch	Model: 963D
	Carrier Name:

Meter Reading: Hours: 11195 on 9/22/2021 by Timothy M. Kirkman  
 Odometer: on by  
 Last Hour Service (Lifetime): 11195 (11195) on 9/22/2021  
 Last Odometer Service (Lifetime): on

**Problem Description:** PM1/250hr. Add ELC extender and conditioner to the cooling system.

**Labor Items:**

Work Code	Item Code	ST	OT	DT	
Perform	26 - PM / Service:PM's Hours:PM1/250		9.00	0.00	0.00

**Parts List:**

Part Num	Name	UOM	Qty Used	
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**Cost Ledger:**

Type	Ref Num	Description	Estimated Cost	
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**Reconciled Purchases:**

Part Num	Description	Invoice #	Ref #	Qty Used	
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# Maintenance Work Order

**Work Order:** 60326  
**Priority:** Normal  
**Due Date:**

**Notes:**

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- 9/22/2021 Timothy M. Kirkman Added coolant conditioner and extender.
- 9/22/2021 Chase A. Rose oil drain access belly pan had a stripped out bolt when i got underneath machine. power washed machine and service is complete.

# Maintenance Work Order

**Work Order:** 59883  
**Priority:** Normal  
**Due Date:**

**Scheduling:**

**Status:** Closed  
**Status Date:** 8/31/2021

Mechanic Name	Schedule Date	Work Complete?
Nicholas J. Littell	8/25/2021	<input checked="" type="checkbox"/>
John J. Lauber	8/30/2021	<input checked="" type="checkbox"/>

Equipment ID: 22-026	Description: Cat 963D Track Loader
Work Order Job: 21-S428	VIN #
Current Job: 24-R137	Serial # LCS02190
Current Location: 24-R137	License Plate #
Equipment Foreman:	Make: Cat
Work Order Foreman: Anthony Esch	Model: 963D
	Carrier Name:

Meter Reading: Hours: 11055 on 8/30/2021 by Kraig L. Kuhse  
 Odometer: on by  
 Last Hour Service (Lifetime): 10965 (10965) on 8/17/2021  
 Last Odometer Service (Lifetime): on

**Problem Description:** Low quick attach pressure. Fuel filters plugged code coming up.

**Labor Items:**

Work Code	Item Code	ST	OT	DT	
Diagnose	14 - Hydraulic System:Quick Disconnect Coupler		3.00	0.00	0.00
Replace	14 - Hydraulic System:Quick Attach Cylinder, Hose, Valve, Wiring		2.50	0.00	0.00
Replace	15 - Fuel System:Fuel Filter		1.00	0.00	0.00

**Parts List:**

Part Num	Name	UOM	Qty Used	
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**Cost Ledger:**

Type	Ref Num	Description	Estimated Cost
Parts		Invoice #: IN000225336, Item Description: Cyl Gp-Basic, Vendor Name: Ziegler, Inc.	\$0.00

**Reconciled Purchases:**

Part Num	Description	Invoice #	Ref #	Qty Used	
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# Maintenance Work Order

**Work Order:** 59883  
**Priority:** Normal  
**Due Date:**

## Notes:

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8/30/2021	John J. Lauber	Replaced fuel filters, primed system and ran machine. Code for quick attach pressure not active while working on machine.
8/27/2021	Nicholas J. Littell	Replaced quick coupler cylinders and the pressure didn't fall off like it did before.
8/26/2021	Nicholas J. Littell	Found that quick attach pressure falls off really quick when the quick attach is activated but when I shut the valve going to the cylinder it doesn't fall off as quick

# Maintenance Work Order

**Work Order:** 59608  
**Priority:** Normal  
**Due Date:**

**Scheduling:**

**Status:** Closed  
**Status Date:** 8/25/2021

Mechanic Name	Schedule Date	Work Complete?
Christopher J. Murano	8/13/2021	<input checked="" type="checkbox"/>
John M. Pohlman	8/13/2021	<input checked="" type="checkbox"/>
Timothy M. Kirkman	8/13/2021	<input checked="" type="checkbox"/>
Chase A. Rose	8/17/2021	<input checked="" type="checkbox"/>

Equipment ID: 22-026	Description: Cat 963D Track Loader
Work Order Job: 20-S389	VIN #
Current Job: 24-R137	Serial # LCS02190
Current Location: 24-R137	License Plate #
Equipment Foreman:	Make: Cat
Work Order Foreman: Anthony Esch	Model: 963D
	Carrier Name:

Meter Reading: Hours: 10965 on 8/17/2021 by Timothy M. Kirkman  
 Odometer: on by  
 Last Hour Service (Lifetime): 10965 (10965) on 8/17/2021  
 Last Odometer Service (Lifetime): on

Problem Description: PM3/1000hr.

**Labor Items:**

Work Code	Item Code	ST	OT	DT	
Perform	26 - PM / Service:PM's Hours:PM3/1,000		8.00	0.00	0.00

**Parts List:**

Part Num	Name	UOM	Qty Used	
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**Cost Ledger:**

Type	Ref Num	Description	Estimated Cost	
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**Reconciled Purchases:**

Part Num	Description	Invoice #	Ref #	Qty Used	
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# Maintenance Work Order

**Work Order:** 59608  
**Priority:** Normal  
**Due Date:**

**Notes:**

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8/17/2021 Timothy M. Kirkman Power washed machine.

# Maintenance Work Order

**Work Order:** 59711  
**Priority:** Normal  
**Due Date:**

**Scheduling:**

**Status:** Closed  
**Status Date:** 8/23/2021

Mechanic Name	Schedule Date	Work Complete?
John J. Lauber	8/18/2021	<input checked="" type="checkbox"/>

Equipment ID: 22-026	Description: Cat 963D Track Loader
Work Order Job: 20-S389	VIN #
Current Job: 24-R137	Serial # LCS02190
Current Location: 24-R137	License Plate #
Equipment Foreman:	Make: Cat
Work Order Foreman: Anthony Esch	Model: 963D
	Carrier Name:

Meter Reading: Hours: 10997 on 8/20/2021 by Kraig L. Kuhse  
 Odometer: on by  
 Last Hour Service (Lifetime): 10965 (10965) on 8/17/2021  
 Last Odometer Service (Lifetime): on

**Problem Description:** Low quick attach pressure code coming up.

**Labor Items:**

Work Code	Item Code	ST	OT	DT	
Clean	25 - Attachments:Bucket		1.00	0.00	0.00

**Parts List:**

Part Num	Name	UOM	Qty Used	
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**Cost Ledger:**

Type	Ref Num	Description	Estimated Cost	
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**Reconciled Purchases:**

Part Num	Description	Invoice #	Ref #	Qty Used	
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**Notes:**

8/18/2021 John J. Lauber Cleaned lock pin holes on the bucket. No code present.

# Maintenance Work Order

**Work Order:** 59494  
**Priority:** Normal  
**Due Date:**

**Scheduling:**

**Status:** Closed  
**Status Date:** 8/10/2021

Mechanic Name	Schedule Date	Work Complete?
Nicholas J. Littell	8/6/2021	<input checked="" type="checkbox"/>

Equipment ID: 22-026	Description: Cat 963D Track Loader
Work Order Job: 20-S389	VIN #
Current Job: 24-R137	Serial # LCS02190
Current Location: 24-R137	License Plate #
Equipment Foreman:	Make: Cat
Work Order Foreman: Anthony Esch	Model: 963D
	Carrier Name:

Meter Reading: Hours: 10915 on 8/10/2021 by Kraig L. Kuhse  
 Odometer: on by  
 Last Hour Service (Lifetime): 10744 (10744) on 7/19/2021  
 Last Odometer Service (Lifetime): on

**Problem Description:** Blower motor doesn't work.

**Labor Items:**

Work Code	Item Code	ST	OT	DT	
Replace	28 - Air Conditioning / Heating System:Blower Fan / Motor		2.00	0.00	0.00

**Parts List:**

Part Num	Name	UOM	Qty Used	
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**Cost Ledger:**

Type	Ref Num	Description	Estimated Cost
Parts		Invoice #: IN000203896, Item Description: Blower As, Vendor Name: Ziegler, Inc.	\$0.00

**Reconciled Purchases:**

Part Num	Description	Invoice #	Ref #	Qty Used	
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# Maintenance Work Order

**Work Order:** 59494  
**Priority:** Normal  
**Due Date:**

**Notes:**

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8/9/2021      Nicholas J. Littell      Replaced blower motor.

# Maintenance Work Order

**Work Order:** 59044  
**Priority:** Normal  
**Due Date:**

**Scheduling:**

**Status:** Closed  
**Status Date:** 7/28/2021

Mechanic Name	Schedule Date	Work Complete?
Christopher J. Murano	7/16/2021	<input checked="" type="checkbox"/>
John M. Pohlman	7/16/2021	<input checked="" type="checkbox"/>
Timothy M. Kirkman	7/16/2021	<input checked="" type="checkbox"/>

Equipment ID: 22-026	Description: Cat 963D Track Loader
Work Order Job: 20-S389	VIN #
Current Job: 24-R137	Serial # LCS02190
Current Location: 24-R137	License Plate #
Equipment Foreman:	Make: Cat
Work Order Foreman: Anthony Esch	Model: 963D
	Carrier Name:

Meter Reading: Hours: 10744 on 7/19/2021 by Timothy M. Kirkman  
 Odometer: on by  
 Last Hour Service (Lifetime): 10744 (10744) on 7/19/2021  
 Last Odometer Service (Lifetime): on

Problem Description: PM1/250hr. Take coolant sample.

**Labor Items:**

Work Code	Item Code	ST	OT	DT	
Perform	26 - PM / Service:PM's Hours:PM1/250		7.50	0.00	0.00

**Parts List:**

Part Num	Name	UOM	Qty Used	
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**Cost Ledger:**

Type	Ref Num	Description	Estimated Cost	
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**Reconciled Purchases:**

Part Num	Description	Invoice #	Ref #	Qty Used	
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## Maintenance Work Order

**Work Order:** 59044  
**Priority:** Normal  
**Due Date:**

**Notes:**

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7/19/2021 Timothy M. Kirkman Took coolant sample. Left final was slightly over full again. I followed the last few PM sheets and it looks like it has had a pattern of it being slightly over full for awhile. Noted only on paper , not computer. It was not topped out full, but over full.

# Maintenance Work Order

**Work Order:** 56730  
**Priority:** Normal  
**Due Date:**

**Scheduling:**

**Status:** Closed  
**Status Date:** 7/6/2021

Mechanic Name	Schedule Date	Work Complete?
Austin F. Stewart	6/29/2021	<input checked="" type="checkbox"/>

Equipment ID: 22-026	Description: Cat 963D Track Loader
Work Order Job: 20-S389	VIN #
Current Job: 24-R137	Serial # LCS02190
Current Location: 24-R137	License Plate #
Equipment Foreman:	Make: Cat
Work Order Foreman: Anthony Esch	Model: 963D
	Carrier Name:

Meter Reading: Hours: 10647 on 7/2/2021 by Kraig L. Kuhse  
 Odometer: on by  
 Last Hour Service (Lifetime): 10539 (10539) on 6/16/2021  
 Last Odometer Service (Lifetime): on

**Problem Description:** Rock guard bolt broken.

**Labor Items:**

Work Code	Item Code	ST	OT	DT	
Inspect	17 - Undercarriage:Track Guide		2.00	0.00	0.00
Repair	17 - Undercarriage:Track Guide		1.50	0.00	0.00

**Parts List:**

Part Num	Name	UOM	Qty Used	
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**Cost Ledger:**

Type	Ref Num	Description	Estimated Cost
Parts		Invoice #: IN000159456, Item Description: Rod, Tube, Nut, Washer, Vendor Name: Ziegler, Inc.	\$0.00

**Reconciled Purchases:**

Part Num	Description	Invoice #	Ref #	Qty Used
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# Maintenance Work Order

**Work Order:** 56730  
**Priority:** Normal  
**Due Date:**

**Notes:**

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- 7/6/2021 Austin F. Stewart Track guide bolt broken and twisted up between track, removed bolt from track.
- 7/1/2021 Austin F. Stewart Bolt that hols rock guards together at back of roller frame broken, got new bolt and installed.

# Maintenance Work Order

**Work Order:** 56677  
**Priority:** Normal  
**Due Date:**

**Scheduling:**

**Status:** Closed  
**Status Date:** 6/28/2021

Mechanic Name	Schedule Date	Work Complete?
Nicholas J. Littell	6/26/2021	<input checked="" type="checkbox"/>

Equipment ID: 22-026	Description: Cat 963D Track Loader
Work Order Job: 20-S389	VIN #
Current Job: 24-R137	Serial # LCS02190
Current Location: 24-R137	License Plate #
Equipment Foreman:	Make: Cat
Work Order Foreman: Anthony Esch	Model: 963D
	Carrier Name:

Meter Reading: Hours: 10606 on 6/28/2021 by Kraig L. Kuhse  
 Odometer: on by  
 Last Hour Service (Lifetime): 10539 (10539) on 6/16/2021  
 Last Odometer Service (Lifetime): on

Problem Description: A/C not working.

**Labor Items:**

Work Code	Item Code	ST	OT	DT	
Recharge	28 - Air Conditioning / Heating System		3.00	0.00	0.00

**Parts List:**

Part Num	Name	UOM	Qty Used	
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**Cost Ledger:**

Type	Ref Num	Description	Estimated Cost	
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**Reconciled Purchases:**

Part Num	Description	Invoice #	Ref #	Qty Used	
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**Notes:**

6/28/2021 Nicholas J. Littell Vacuumed the ac system down and checked for leaks recharged ac and works fine now.

# Maintenance Work Order

**Work Order:** 56360  
**Priority:** Normal  
**Due Date:**

**Scheduling:**

**Status:** Closed  
**Status Date:** 6/22/2021

Mechanic Name	Schedule Date	Work Complete?
Christopher J. Murano	6/12/2021	<input checked="" type="checkbox"/>
John M. Pohlman	6/12/2021	<input checked="" type="checkbox"/>
Timothy M. Kirkman	6/12/2021	<input checked="" type="checkbox"/>

Equipment ID: 22-026	Description: Cat 963D Track Loader
Work Order Job: 20-S389	VIN #
Current Job: 24-R137	Serial # LCS02190
Current Location: 24-R137	License Plate #
Equipment Foreman:	Make: Cat
Work Order Foreman: Anthony Esch	Model: 963D
	Carrier Name:

Meter Reading: Hours: 10539 on 6/16/2021 by Christopher J. Murano  
 Odometer: on by  
 Last Hour Service (Lifetime): 10539 (10539) on 6/16/2021  
 Last Odometer Service (Lifetime): on

Problem Description: PM2/500hr.

**Labor Items:**

Work Code	Item Code	ST	OT	DT	
Perform	26 - PM / Service:PM's Hours:PM2/500		7.50	0.00	0.00

**Parts List:**

Part Num	Name	UOM	Qty Used	
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**Cost Ledger:**

Type	Ref Num	Description	Estimated Cost	
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**Reconciled Purchases:**

Part Num	Description	Invoice #	Ref #	Qty Used	
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# Maintenance Work Order

**Work Order:** 56360  
**Priority:** Normal  
**Due Date:**

**Notes:**

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6/16/2021 Christopher J. Murano Washed machine. DONE

# Maintenance Work Order

**Work Order:** 54565  
**Priority:** Normal  
**Due Date:**

**Scheduling:**

**Status:** Closed  
**Status Date:** 6/15/2021

Mechanic Name	Schedule Date	Work Complete?
John J. Lauber	5/5/2021	<input checked="" type="checkbox"/>
Austin F. Stewart	5/19/2021	<input checked="" type="checkbox"/>

Equipment ID: 22-026	Description: Cat 963D Track Loader
Work Order Job: 20-S390	VIN #
Current Job: 24-R137	Serial # LCS02190
Current Location: 24-R137	License Plate #
Equipment Foreman:	Make: Cat
Work Order Foreman: Anthony Esch	Model: 963D
	Carrier Name:

Meter Reading: Hours: 10524 on 6/15/2021 by Kraig L. Kuhse  
 Odometer: on by  
 Last Hour Service (Lifetime): 10319 (10319) on 5/11/2021  
 Last Odometer Service (Lifetime): on

**Problem Description:** Test lines are leaking, cap off for now. Quick attach pressure code. Clean out air filters.

**Labor Items:**

Work Code	Item Code	ST	OT	DT	
Clean	10 - Inspection / Cleaning:Clean Out Cab Filter, Condenser, Radiator		0.50	0.00	0.00
Diagnose	14 - Hydraulic System:Quick Attach Cylinder, Hose, Valve, Wiring		2.50	0.00	0.00
Repair	14 - Hydraulic System:Hydraulic Fittings / Lines		2.00	0.00	0.00

**Parts List:**

Part Num	Name	UOM	Qty Used	
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**Cost Ledger:**

Type	Ref Num	Description	Estimated Cost	
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**Reconciled Purchases:**

Part Num	Description	Invoice #	Ref #	Qty Used	
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# Maintenance Work Order

**Work Order:** 54565  
**Priority:** Normal  
**Due Date:**

**Notes:**

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6/8/2021	John J. Lauber	Blew out cab and engine filters.
5/19/2021	Austin F. Stewart	Machine had codes for low quick attach pressure. Cleaned out pockets for wedges and checked for leaks. Code wasn't active and couldn't find fault.
5/5/2021	John J. Lauber	Found 2 test lines leaking. Capped off lines. Filled hydraulic fluid. Ran machine.

# Maintenance Work Order

**Work Order:** 54621  
**Priority:** Normal  
**Due Date:**

**Scheduling:**

**Status:** Closed  
**Status Date:** 5/19/2021

Mechanic Name	Schedule Date	Work Complete?
Christopher J. Murano	5/8/2021	<input checked="" type="checkbox"/>
Timothy M. Kirkman	5/8/2021	<input checked="" type="checkbox"/>

Equipment ID: 22-026	Description: Cat 963D Track Loader
Work Order Job: 20-S390	VIN #
Current Job: 24-R137	Serial # LCS02190
Current Location: 24-R137	License Plate #
Equipment Foreman:	Make: Cat
Work Order Foreman: Anthony Esch	Model: 963D
	Carrier Name:

Meter Reading: Hours: 10319 on 5/11/2021 by Timothy M. Kirkman  
 Odometer: on by  
 Last Hour Service (Lifetime): 10319 (10319) on 5/11/2021  
 Last Odometer Service (Lifetime): on

Problem Description: PM1/250hr. Add coolant conditioner.

**Labor Items:**

Work Code	Item Code	ST	OT	DT	
Perform	26 - PM / Service:PM's Hours:PM1/250		8.00	0.00	0.00

**Parts List:**

Part Num	Name	UOM	Qty Used	
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**Cost Ledger:**

Type	Ref Num	Description	Estimated Cost	
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**Reconciled Purchases:**

Part Num	Description	Invoice #	Ref #	Qty Used	
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# Maintenance Work Order

**Work Order:** 54621  
**Priority:** Normal  
**Due Date:**

**Notes:**

5/11/2021 Timothy M. Kirkman Hydraulic restriction light was on during the complete warm up. Had filters on truck and changed - light went out.Added coolant conditioner . Power washed machine.

# Maintenance Work Order

**Work Order:** 54205  
**Priority:** Normal  
**Due Date:**

**Scheduling:**

**Status:** Closed  
**Status Date:** 4/26/2021

Mechanic Name	Schedule Date	Work Complete?
Nicholas J. Littell	4/20/2021	<input checked="" type="checkbox"/>

Equipment ID: 22-026	Description: Cat 963D Track Loader
Work Order Job: 20-S389	VIN #
Current Job: 24-R137	Serial # LCS02190
Current Location: 24-R137	License Plate #
Equipment Foreman:	Make: Cat
Work Order Foreman: Anthony Esch	Model: 963D
	Carrier Name:

Meter Reading: Hours: 10231 on 4/26/2021 by Kraig L. Kuhse  
 Odometer: on by  
 Last Hour Service (Lifetime): 10119 (10119) on 4/9/2021  
 Last Odometer Service (Lifetime): on

**Problem Description:** Quick attach hoses broken. Hyd filter restriction.

**Labor Items:**

Work Code	Item Code	ST	OT	DT	
Diagnose	14 - Hydraulic System:Hydraulic Fittings / Lines		1.00	0.00	0.00
Diagnose	14 - Hydraulic System:Hydraulic Gauge, Remote, Sensor, Sender, Wiring		1.00	0.00	0.00
Replace	14 - Hydraulic System:Hydraulic Filter		1.50	0.00	0.00
Replace	14 - Hydraulic System:Hydraulic Fittings / Lines		1.00	0.00	0.00
Replace	14 - Hydraulic System:Hydraulic Gauge, Remote, Sensor, Sender, Wiring		1.00	0.00	0.00

**Parts List:**

Part Num	Name	UOM	Qty Used	
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# Maintenance Work Order

**Work Order:** 54205  
**Priority:** Normal  
**Due Date:**

Cost Ledger:

Type	Ref Num	Description	Estimated Cost
Parts		Invoice #: IN000074936, Item Description: Hose As, Vendor Name: Ziegler, Inc.	\$0.00
Parts		Invoice #: IN000075969, Item Description: Switch As-Pr, Vendor Name: Ziegler, Inc.	\$0.00

Reconciled Purchases:

Part Num	Description	Invoice #	Ref #	Qty Used
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Notes:

- 4/22/2021 Nicholas J. Littell Replaced quick attach hoses between the cylinders and replaced the hydraulic pressure sensors.
- 4/21/2021 Nicholas J. Littell Replaced hydraulic filters. Ordered quick attach hoses and sensors for hydraulic filters.

# Maintenance Work Order

**Work Order:** 54040  
**Priority:** Normal  
**Due Date:**

**Scheduling:**

**Status:** Closed  
**Status Date:** 4/19/2021

Mechanic Name	Schedule Date	Work Complete?
Austin F. Stewart	4/14/2021	<input checked="" type="checkbox"/>

Equipment ID: 22-026	Description: Cat 963D Track Loader
Work Order Job: 20-W520	VIN #
Current Job: 24-R137	Serial # LCS02190
Current Location: 24-R137	License Plate #
Equipment Foreman:	Make: Cat
Work Order Foreman: Anthony Esch	Model: 963D
	Carrier Name:

Meter Reading: Hours: 10176 on 4/18/2021 by Kraig L. Kuhse  
 Odometer: on by  
 Last Hour Service (Lifetime): 10119 (10119) on 4/9/2021  
 Last Odometer Service (Lifetime): on

**Problem Description:** Quick coupler line leaking.

**Labor Items:**

Work Code	Item Code	ST	OT	DT	
Parts Delivery or Pickup	14 - Hydraulic System:Quick Attach Cylinder, Hose, Valve, Wiring		1.00	0.00	0.00
Replace	14 - Hydraulic System:Quick Attach Cylinder, Hose, Valve, Wiring		1.00	0.00	0.00

**Parts List:**

Part Num	Name	UOM	Qty Used	
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**Cost Ledger:**

Type	Ref Num	Description	Estimated Cost
Parts		Invoice #: IN000067805, Item Description: Hose As, Vendor Name: Ziegler, Inc.	\$0.00

**Reconciled Purchases:**

Part Num	Description	Invoice #	Ref #	Qty Used	
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# Maintenance Work Order

**Work Order:** 54040  
**Priority:** Normal  
**Due Date:**

Notes:

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4/14/2021      Austin F. Stewart      Quick attach hoses leaking. Waited for parts to be delivered and replaced both hoses.

# Maintenance Work Order

**Work Order:** 53892  
**Priority:** Normal  
**Due Date:**

**Scheduling:**

**Status:** Closed  
**Status Date:** 4/13/2021

Mechanic Name	Schedule Date	Work Complete?
Christopher J. Murano	4/6/2021	<input checked="" type="checkbox"/>
Timothy M. Kirkman	4/6/2021	<input checked="" type="checkbox"/>

Equipment ID: 22-026	Description: Cat 963D Track Loader
Work Order Job: 20-W520	VIN #
Current Job: 24-R137	Serial # LCS02190
Current Location: 24-R137	License Plate #
Equipment Foreman:	Make: Cat
Work Order Foreman: Anthony Esch	Model: 963D
	Carrier Name:

Meter Reading: Hours: 10119 on 4/9/2021 by Christopher J. Murano  
 Odometer: on by  
 Last Hour Service (Lifetime): 10119 (10119) on 4/9/2021  
 Last Odometer Service (Lifetime): on

Problem Description: PM4/2000hr.

**Labor Items:**

Work Code	Item Code	ST	OT	DT	
Perform	26 - PM / Service:PM's Hours:PM4/2,000		10.00	0.00	0.00

**Parts List:**

Part Num	Name	UOM	Qty Used	
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**Cost Ledger:**

Type	Ref Num	Description	Estimated Cost	
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**Reconciled Purchases:**

Part Num	Description	Invoice #	Ref #	Qty Used	
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# Maintenance Work Order

**Work Order:** 53892  
**Priority:** Normal  
**Due Date:**

**Notes:**

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4/9/2021 Christopher J. Murano Washed machine.DONE

# Maintenance Work Order

**Work Order:** 53911  
**Priority:** Normal  
**Due Date:**

**Scheduling:**

**Status:** Closed  
**Status Date:** 4/13/2021

Mechanic Name	Schedule Date	Work Complete?
Nicholas J. Littell	4/6/2021	<input checked="" type="checkbox"/>
Austin F. Stewart	4/12/2021	<input checked="" type="checkbox"/>

Equipment ID: 22-026	Description: Cat 963D Track Loader
Work Order Job: 20-W520	VIN #
Current Job: 24-R137	Serial # LCS02190
Current Location: 24-R137	License Plate #
Equipment Foreman:	Make: Cat
Work Order Foreman: Anthony Esch	Model: 963D
	Carrier Name:

Meter Reading: Hours: 10131 on 4/12/2021 by Jeff Lewis  
 Odometer: on by  
 Last Hour Service (Lifetime): 10119 (10119) on 4/9/2021  
 Last Odometer Service (Lifetime): on

**Problem Description:** Fuel filters blocked. Bucket cylinder hose leaking.

**Labor Items:**

Work Code	Item Code	ST	OT	DT	
Parts Delivery or Pickup	14 - Hydraulic System:Hydraulic Fittings / Lines		1.50	0.00	0.00
Replace	14 - Hydraulic System:Hydraulic Fittings / Lines		1.00	0.00	0.00
Replace	15 - Fuel System:Fuel Filter		0.50	0.00	0.00

**Parts List:**

Part Num	Name	UOM	Qty Used	
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**Cost Ledger:**

Type	Ref Num	Description	Estimated Cost
Parts		Invoice #: IN000064083, Item Description: Hose As, Vendor Name: Ziegler, Inc.	\$0.00

**Reconciled Purchases:**

Part Num	Description	Invoice #	Ref #	Qty Used
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# Maintenance Work Order

**Work Order:** 53911  
**Priority:** Normal  
**Due Date:**

Notes:

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- 4/12/2021 Austin F. Stewart Got hyd hoses from ziegler and went to micro 9. Replaced both tilt cylinder hoses and filled with oil.
- 4/6/2021 Nicholas J. Littell Replaced all fuel filters.

# Maintenance Work Order

**Work Order:** 53544  
**Priority:** Normal  
**Due Date:**

**Scheduling:**

**Status:** Closed  
**Status Date:** 3/15/2021

Mechanic Name	Schedule Date	Work Complete?
Austin F. Stewart	3/12/2021	<input checked="" type="checkbox"/>

Equipment ID: 22-026 Description: Cat 963D Track Loader  
Work Order Job: 20-W520 VIN #  
Current Job: 24-R137 Serial # LCS02190  
Current Location: 24-R137 License Plate #  
Equipment Foreman: Make: Cat  
Work Order Foreman: Anthony Esch Model: 963D  
Carrier Name:

Meter Reading: Hours: 9944 on 3/15/2021 by Trevor L. Williams  
Odometer: on by  
Last Hour Service (Lifetime): 9874 (9874) on 12/23/2020  
Last Odometer Service (Lifetime): on

Problem Description: Fuel filters restricted.

**Labor Items:**

Work Code	Item Code	ST	OT	DT	
Replace	15 - Fuel System:Fuel Filter		1.00	0.00	0.00

**Parts List:**

Part Num	Name	UOM	Qty Used	
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**Cost Ledger:**

Type	Ref Num	Description	Estimated Cost	
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**Reconciled Purchases:**

Part Num	Description	Invoice #	Ref #	Qty Used	
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**Notes:**

3/12/2021 Austin F. Stewart Replaced fuel filters.

# Maintenance Work Order

**Work Order:** 52867  
**Priority:** Normal  
**Due Date:**

Scheduling:

**Status:** Closed  
**Status Date:** 1/29/2021

Mechanic Name	Schedule Date	Work Complete?
Jacob H. Haws	1/12/2021	<input checked="" type="checkbox"/>
Wade J. Smith	1/19/2021	<input checked="" type="checkbox"/>

Equipment ID: 22-026 Description: Cat 963D Track Loader  
Work Order Job: 20-W520 VIN #  
Current Job: 24-R137 Serial # LCS02190  
Current Location: 24-R137 License Plate #  
Equipment Foreman: Make: Cat  
Work Order Foreman: Anthony Esch Model: 963D  
Carrier Name:

Meter Reading: Hours: 9878 on 12/28/2020 by Jeff Lewis  
Odometer: on by  
Last Hour Service (Lifetime): 9874 (9874) on 12/23/2020  
Last Odometer Service (Lifetime): on

**Problem Description:** Repair inspection. Replace dome light. Repair horn. Replace right hand steering motor solenoid. Replace wipers. Lube latches and locks. Touch up bucket hardsurface. Replace coolant

# Maintenance Work Order

**Work Order:** 52867  
**Priority:** Normal  
**Due Date:**

**Labor Items:**

Work Code	Item Code	ST	OT	DT	
Calibrate	12 - Transmission / Power Train:Calibration of Powertrain / Steering		2.50	0.00	0.00
Diagnose	13 - Lighting / Charging / Starting System:Backup,D ash,Dome,Cleara nce,Head,Marker, Tail,Turn,		1.50	0.00	0.00
Hardsurface	25 - Attachments:Buc ket		3.25	0.00	0.00
Inspect	10 - Inspection / Cleaning:Repair Inspection		5.00	0.00	0.00
Repair	27 - Cab / Body:Air or City Horn		0.50	0.00	0.00
Repair	27 - Cab / Body:Door Latch / Lock		1.00	0.00	0.00
Replace	12 - Transmission / Power Train:Power Train Gauge,Sensor, Sender, Wiring		2.00	0.00	0.00
Replace	13 - Lighting / Charging / Starting System:Backup,D ash,Dome,Cleara nce,Head,Marker, Tail,Turn,		0.50	0.00	0.00
Replace	19 - Cooling System:Coolant		2.00	0.00	0.00
Replace	27 - Cab / Body:Windshield Wiper		0.50	0.00	0.00

**Parts List:**

Part Num	Name	UOM	Qty Used	
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# Maintenance Work Order

**Work Order:** 52867  
**Priority:** Normal  
**Due Date:**

## Cost Ledger:

Type	Ref Num	Description	Estimated Cost
Parts		Invoice #: PC501431111, Item Description: Spacer, Blade A, Blade- Wiper, , Vendor Name: Ziegler, Inc.	\$0.00
Parts		Invoice #: PC501431112, Item Description: Lamp GP, Vendor Name: Ziegler, Inc.	\$0.00
Parts		Invoice #: PC501431113, Item Description: Solenoid As, Seal Oring, Vendor Name: Ziegler, Inc.	\$0.00

## Reconciled Purchases:

Part Num	Description	Invoice #	Ref #	Qty Used
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## Notes:

1/25/2021	Jacob H. Haws	Warmed up motor drained coolant. Put vaccum on system and refilled and ran. Rechecked coolant and parked down in east lot.		
1/20/2021	Wade J. Smith	Touch up hardsurface weld on bucket.		
1/14/2021	Jacob H. Haws	Cleaned all belly pan and guard bolts. Installed pans and guards. Lube all latches and locks. Parked machine and cleaned bay.		
1/13/2021	Jacob H. Haws	Moved machine to wash bay to get tracks cleaned out was full of mud. Cleaned up bay. Brought back in shop went to put up on stands and back stands slide out and broke steering motor solenoid. Replaced solenoid and put up on stands. Performed all calibrations. Had a little issue with calibrating motor solenoids had oring on wrong fixed. Took back off stands. Installed new dome light. Installed wiper blades. Sent to wash bay and cleaned bay again.		
1/12/2021	Jacob H. Haws	Pulled pans and guards off. Looked over made list. Looked at horn found bad fuse replaced. Looked at dome light soon as u turn it on it blows horn fuse. Took down dome light and it is shorting out order new one.		

# Maintenance Work Order

**Work Order:** 52608  
**Priority:** Normal  
**Due Date:**

**Scheduling:**

**Status:** Closed  
**Status Date:** 12/29/2020

Mechanic Name	Schedule Date	Work Complete?
Christopher J. Murano	12/21/2020	<input checked="" type="checkbox"/>
Timothy M. Kirkman	12/21/2020	<input checked="" type="checkbox"/>

Equipment ID: 22-026	Description: Cat 963D Track Loader
Work Order Job: 18-S593	VIN #
Current Job: 24-R137	Serial # LCS02190
Current Location: 24-R137	License Plate #
Equipment Foreman:	Make: Cat
Work Order Foreman: Anthony Esch	Model: 963D
	Carrier Name:

Meter Reading: Hours: 9874 on 12/23/2020 by Timothy M. Kirkman  
 Odometer: on by  
 Last Hour Service (Lifetime): 9874 (9874) on 12/23/2020  
 Last Odometer Service (Lifetime): on

**Problem Description:** PM1/250hr. Save engine oil filter for inspection.

**Labor Items:**

Work Code	Item Code	ST	OT	DT	
Perform	26 - PM / Service:PM's Hours:PM1/250		8.00	0.00	0.00

**Parts List:**

Part Num	Name	UOM	Qty Used	
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**Cost Ledger:**

Type	Ref Num	Description	Estimated Cost	
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**Reconciled Purchases:**

Part Num	Description	Invoice #	Ref #	Qty Used	
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# Maintenance Work Order

**Work Order:** 52608  
**Priority:** Normal  
**Due Date:**

**Notes:**

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12/23/2020 Timothy M. Kirkman Power washed machine. Machine has been in fly ash. Engine oil filter will be cut open and on bench.

# Maintenance Work Order

**Work Order:** 52331  
**Priority:** Normal  
**Due Date:**

**Scheduling:**

**Status:** Closed  
**Status Date:** 12/8/2020

Mechanic Name	Schedule Date	Work Complete?
John J. Lauber	12/4/2020	<input checked="" type="checkbox"/>

Equipment ID: 22-026	Description: Cat 963D Track Loader
Work Order Job: 18-S593	VIN #
Current Job: 24-R137	Serial # LCS02190
Current Location: 24-R137	License Plate #
Equipment Foreman:	Make: Cat
Work Order Foreman: Anthony Esch	Model: 963D
	Carrier Name:

Meter Reading: Hours: 9781 on 12/7/2020 by Jeff Lewis  
 Odometer: on by  
 Last Hour Service (Lifetime): 9667 (9667) on 11/13/2020  
 Last Odometer Service (Lifetime): on

**Problem Description:** Replace equalizer hose on drive motors.

**Labor Items:**

Work Code	Item Code	ST	OT	DT	
Diagnose	12 - Transmission / Power Train:Hydrostatic Fittings / Lines		1.00	0.00	0.00
Parts Delivery or Pickup	12 - Transmission / Power Train:Hydrostatic Fittings / Lines		1.00	0.00	0.00
Replace	12 - Transmission / Power Train:Hydrostatic Fittings / Lines		3.00	0.00	0.00

**Parts List:**

Part Num	Name	UOM	Qty Used	
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**Cost Ledger:**

Type	Ref Num	Description	Estimated Cost
Parts		Invoice #: PC501425604, Item Description: Hose As, Vendor Name: Ziegler, Inc.	\$0.00

**Reconciled Purchases:**

Part Num	Description	Invoice #	Ref #	Qty Used	
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# Maintenance Work Order

**Work Order:** 52331  
**Priority:** Normal  
**Due Date:**

**Notes:**

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12/4/2020      John J. Lauber      Found equalizer hose between drive motors leaking. Picked up new hose from Ziegler. Replaced hose. Filled hydraulic fluid. Ran machine.

# Maintenance Work Order

**Work Order:** 50756  
**Priority:** Normal  
**Due Date:**

**Scheduling:**

**Status:** Closed  
**Status Date:** 11/17/2020

Mechanic Name	Schedule Date	Work Complete?
Christopher J. Murano	11/12/2020	<input checked="" type="checkbox"/>
Timothy M. Kirkman	11/12/2020	<input checked="" type="checkbox"/>

Equipment ID: 22-026	Description: Cat 963D Track Loader
Work Order Job: 20-S364	VIN #
Current Job: 24-R137	Serial # LCS02190
Current Location: 24-R137	License Plate #
Equipment Foreman:	Make: Cat
Work Order Foreman: Anthony Esch	Model: 963D
	Carrier Name:

Meter Reading: Hours: 9667 on 11/13/2020 by Timothy M. Kirkman  
 Odometer: on by  
 Last Hour Service (Lifetime): 9667 (9667) on 11/13/2020  
 Last Odometer Service (Lifetime): on

Problem Description: PM2/500hr. Drain 2 gallons of coolant and add ELC concentrate.

**Labor Items:**

Work Code	Item Code	ST	OT	DT	
Perform	26 - PM / Service:PM's Hours:PM2/500		12.00	0.00	0.00

**Parts List:**

Part Num	Name	UOM	Qty Used	
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**Cost Ledger:**

Type	Ref Num	Description	Estimated Cost	
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**Reconciled Purchases:**

Part Num	Description	Invoice #	Ref #	Qty Used	
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# Maintenance Work Order

**Work Order:** 50756  
**Priority:** Normal  
**Due Date:**

**Notes:**

11/13/2020 Timothy M. Kirkman Had emergency PM- Had trouble locating machine. Drained 2 gallons of coolant and added 2 gallons ELC concentrate. Engine oil had 459 on it.

# Maintenance Work Order

**Work Order:** 51778  
**Priority:** Normal  
**Due Date:**

**Scheduling:**

**Status:** Closed  
**Status Date:** 11/10/2020

Mechanic Name	Schedule Date	Work Complete?
Austin F. Stewart	11/3/2020	<input checked="" type="checkbox"/>

Equipment ID: 22-026	Description: Cat 963D Track Loader
Work Order Job: 20-S374	VIN #
Current Job: 24-R137	Serial # LCS02190
Current Location: 24-R137	License Plate #
Equipment Foreman:	Make: Cat
Work Order Foreman: Anthony Esch	Model: 963D
	Carrier Name:

Meter Reading: Hours: 9662 on 11/9/2020 by Kraig L. Kuhse  
 Odometer: on by  
 Last Hour Service (Lifetime): 9207 (9207) on 6/12/2020  
 Last Odometer Service (Lifetime): on

**Problem Description:** Replace bucket teeth.

**Labor Items:**

Work Code	Item Code	ST	OT	DT	
Replace	23 - Cutting Edge / Teeth: Teeth, Pins and Retainers		2.00	0.00	0.00

**Parts List:**

Part Num	Name	UOM	Qty Used	
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**Cost Ledger:**

Type	Ref Num	Description	Estimated Cost
Parts		Invoice #: PC501420620, Item Description: Tip-General, Retainer-Get, Vendor Name: Ziegler, Inc.	\$0.00

**Reconciled Purchases:**

Part Num	Description	Invoice #	Ref #	Qty Used	
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# Maintenance Work Order

**Work Order:** 51778  
**Priority:** Normal  
**Due Date:**

**Notes:**

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11/4/2020      Austin F. Stewart      Drove from state center to ziegler to get teeth. Then drove to waukee high school and replaced teeth and retainers.

# Maintenance Work Order

**Work Order:** 51000  
**Priority:** Normal  
**Due Date:**

**Scheduling:**

**Status:** Closed  
**Status Date:** 10/5/2020

Mechanic Name	Schedule Date	Work Complete?
Kyle J. King	9/29/2020	<input checked="" type="checkbox"/>

Equipment ID: 22-026	Description: Cat 963D Track Loader
Work Order Job: 20-S364	VIN #
Current Job: 24-R137	Serial # LCS02190
Current Location: 24-R137	License Plate #
Equipment Foreman:	Make: Cat
Work Order Foreman: Anthony Esch	Model: 963D
	Carrier Name:

Meter Reading: Hours: 9476 on 10/1/2020 by Kraig L. Kuhse  
 Odometer: on by  
 Last Hour Service (Lifetime): 9207 (9207) on 6/12/2020  
 Last Odometer Service (Lifetime): on

**Problem Description:** Exhaust manifold cracked.

**Labor Items:**

Work Code	Item Code	ST	OT	DT	
Inspect	11 - Engine:Exhaust Manifold		1.00	0.00	0.00
Parts Delivery or Pickup	11 - Engine:Exhaust Manifold		1.00	0.00	0.00
Replace	11 - Engine:Exhaust Manifold		4.00	0.00	0.00

**Parts List:**

Part Num	Name	UOM	Qty Used	
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**Cost Ledger:**

Type	Ref Num	Description	Estimated Cost
Parts		Invoice #: PC501413550, Item Description: Manifold-Exh, Bolt- Flanged, Ga, Vendor Name: Ziegler, Inc.	\$0.00

**Reconciled Purchases:**

Part Num	Description	Invoice #	Ref #	Qty Used	
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# Maintenance Work Order

**Work Order:** 51000  
**Priority:** Normal  
**Due Date:**

Notes:

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9/29/2020      Kyle J. King      Inspected manifold. Went to Ziegler to order parts. Picked up parts and went back to loader. Removed old manifold and replaced with new one and gaskets.

# Maintenance Work Order

**Work Order:** 50927  
**Priority:** Normal  
**Due Date:**

**Scheduling:**

**Status:** Closed  
**Status Date:** 9/28/2020

Mechanic Name	Schedule Date	Work Complete?
Taylor J. Anderson	9/25/2020	<input checked="" type="checkbox"/>

Equipment ID: 22-026	Description: Cat 963D Track Loader
Work Order Job: 20-S364	VIN #
Current Job: 24-R137	Serial # LCS02190
Current Location: 24-R137	License Plate #
Equipment Foreman:	Make: Cat
Work Order Foreman: Anthony Esch	Model: 963D
	Carrier Name:

Meter Reading: Hours: 9439 on 9/25/2020 by Jeff Lewis  
 Odometer: on by  
 Last Hour Service (Lifetime): 9207 (9207) on 6/12/2020  
 Last Odometer Service (Lifetime): on

**Problem Description:** E262: low coupler pressure code. Low power.

**Labor Items:**

Work Code	Item Code	ST	OT	DT	
Clean	10 - Inspection / Cleaning:Clean Out Cab Filter, Condenser, Radiator		0.50	0.00	0.00
Diagnose	14 - Hydraulic System:Quick Attach Cylinder, Hose, Valve, Wiring		1.00	0.00	0.00
Repair	14 - Hydraulic System:Quick Attach Cylinder, Hose, Valve, Wiring		1.00	0.00	0.00

**Parts List:**

Part Num	Name	UOM	Qty Used	
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**Cost Ledger:**

Type	Ref Num	Description	Estimated Cost	
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**Reconciled Purchases:**

Part Num	Description	Invoice #	Ref #	Qty Used	
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# Maintenance Work Order

**Work Order:** 50927  
**Priority:** Normal  
**Due Date:**

## Notes:

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9/25/2020 Taylor J. Anderson 9/25/2020- Machine has low quick coupler pressure code E262. checked pressure on ET and had system pressure. Inspected wiring and found signal wire from sensor was rubbed through on a hose. Cut back bad wire and spliced in new wire. Reconnected to sensor and ran machine, coupler appears to be running as it should. Operator complained of low power. Found air filters plugged and radiator dirty. Cleaned all cabin air filters and engine air filter and cooling group.

# Maintenance Work Order

**Work Order:** 50663  
**Priority:** Normal  
**Due Date:**

**Scheduling:**

**Status:** Closed  
**Status Date:** 9/21/2020

Mechanic Name	Schedule Date	Work Complete?
Taylor J. Anderson	9/15/2020	<input checked="" type="checkbox"/>

Equipment ID: 22-026	Description: Cat 963D Track Loader
Work Order Job: 20-S350	VIN #
Current Job: 24-R137	Serial # LCS02190
Current Location: 24-R137	License Plate #
Equipment Foreman:	Make: Cat
Work Order Foreman: Anthony Esch	Model: 963D
	Carrier Name:

Meter Reading: Hours: 9401 on 9/19/2020 by Jeff Lewis  
 Odometer: on by  
 Last Hour Service (Lifetime): 9207 (9207) on 6/12/2020  
 Last Odometer Service (Lifetime): on

**Problem Description:** Fuel filter restriction #2. Replace fuel filters.

**Labor Items:**

Work Code	Item Code	ST	OT	DT	
Replace	15 - Fuel System:Fuel Filter		1.50	0.00	0.00

**Parts List:**

Part Num	Name	UOM	Qty Used	
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**Cost Ledger:**

Type	Ref Num	Description	Estimated Cost	
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**Reconciled Purchases:**

Part Num	Description	Invoice #	Ref #	Qty Used	
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**Notes:**

9/15/2020 Taylor J. Anderson 9/15/2020- Fuel filter #2 restriction. Replace fuel filters.

# Maintenance Work Order

**Work Order:** 48752  
**Priority:** Normal  
**Due Date:**

**Scheduling:**

**Status:** Closed  
**Status Date:** 6/16/2020

Mechanic Name	Schedule Date	Work Complete?
Christopher J. Murano	6/10/2020	<input checked="" type="checkbox"/>
Timothy M. Kirkman	6/10/2020	<input checked="" type="checkbox"/>

Equipment ID: 22-026	Description: Cat 963D Track Loader
Work Order Job: 20-S350	VIN #
Current Job: 24-R137	Serial # LCS02190
Current Location: 24-R137	License Plate #
Equipment Foreman:	Make: Cat
Work Order Foreman:	Model: 963D
	Carrier Name:

Meter Reading: Hours: 9207 on 6/12/2020 by Christopher J. Murano

Odometer: on by  
 Last Hour Service (Lifetime): 9207 (9207) on 6/12/2020  
 Last Odometer Service (Lifetime): on

Problem Description: PM3/1000hr. Change oil in both final drives.

**Labor Items:**

Work Code	Item Code	ST	OT	DT	
Perform	26 - PM / Service:PM's Hours:PM3/1,000		7.00	0.00	0.00

**Parts List:**

Part Num	Name	UOM	Qty Used	
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**Cost Ledger:**

Type	Ref Num	Description	Estimated Cost	
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**Reconciled Purchases:**

Part Num	Description	Invoice #	Ref #	Qty Used	
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# Maintenance Work Order

**Work Order:** 48752  
**Priority:** Normal  
**Due Date:**

**Notes:**

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6/12/2020 Christopher J. Murano Washed machine. DONE

# Maintenance Work Order

**Work Order:** 48604  
**Priority:** Normal  
**Due Date:**

**Scheduling:**

**Status:** Closed  
**Status Date:** 6/8/2020

Mechanic Name	Schedule Date	Work Complete?
Kyle J. King	6/4/2020	<input checked="" type="checkbox"/>

Equipment ID: 22-026	Description: Cat 963D Track Loader
Work Order Job: 20-S350	VIN #
Current Job: 24-R137	Serial # LCS02190
Current Location: 24-R137	License Plate #
Equipment Foreman:	Make: Cat
Work Order Foreman:	Model: 963D
	Carrier Name:

Meter Reading: Hours: 9180 on 6/6/2020 by Kraig L. Kuhse  
 Odometer: on by  
 Last Hour Service (Lifetime): 9019 (9019) on 4/8/2020  
 Last Odometer Service (Lifetime): on

**Problem Description:** Blew air to air cooler hose.

**Labor Items:**

Work Code	Item Code	ST	OT	DT	
Replace	11 - Engine:Air to Air Cooler, Hoses, Clamps		3.00	0.00	0.00

**Parts List:**

Part Num	Name	UOM	Qty Used	
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**Cost Ledger:**

Type	Ref Num	Description	Estimated Cost
Parts		Invoice #: PC501392830, Item Description: Hose, Clamp-TBolt, Vendor Name: Ziegler, Inc.	\$0.00

**Reconciled Purchases:**

Part Num	Description	Invoice #	Ref #	Qty Used	
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**Notes:**

6/4/2020 Kyle J. King Found out what hose blew. Ordered parts and had brought out. Replaced hose and test run ok.

# Maintenance Work Order

**Work Order:** 47397  
**Priority:** Normal  
**Due Date:**

**Scheduling:**

**Status:** Closed  
**Status Date:** 4/14/2020

Mechanic Name	Schedule Date	Work Complete?
Christopher J. Murano	4/4/2020	<input checked="" type="checkbox"/>
Timothy M. Kirkman	4/4/2020	<input checked="" type="checkbox"/>

Equipment ID: 22-026	Description: Cat 963D Track Loader
Work Order Job: 19-S328	VIN #
Current Job: 24-R137	Serial # LCS02190
Current Location: 24-R137	License Plate #
Equipment Foreman:	Make: Cat
Work Order Foreman:	Model: 963D
	Carrier Name:

Meter Reading: Hours: 9019 on 4/8/2020 by Christopher J. Murano

Odometer: on by  
 Last Hour Service (Lifetime): 9019 (9019) on 4/8/2020  
 Last Odometer Service (Lifetime): on

Problem Description: PM1/250hr.

**Labor Items:**

Work Code	Item Code	ST	OT	DT	
Perform	26 - PM / Service:PM's Hours:PM1/250		7.00	0.00	0.00

**Parts List:**

Part Num	Name	UOM	Qty Used	
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**Cost Ledger:**

Type	Ref Num	Description	Estimated Cost	
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**Reconciled Purchases:**

Part Num	Description	Invoice #	Ref #	Qty Used	
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# Maintenance Work Order

**Work Order:** 47397  
**Priority:** Normal  
**Due Date:**

**Notes:**

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4/8/2020 Christopher J. Murano Done.

# Maintenance Work Order

**Work Order:** 47465  
**Priority:** Normal  
**Due Date:**

**Scheduling:**

**Status:** Closed  
**Status Date:** 4/13/2020

Mechanic Name	Schedule Date	Work Complete?
Kyle J. King	4/8/2020	<input checked="" type="checkbox"/>

Equipment ID: 22-026	Description: Cat 963D Track Loader
Work Order Job: 19-S325	VIN #
Current Job: 24-R137	Serial # LCS02190
Current Location: 24-R137	License Plate #
Equipment Foreman:	Make: Cat
Work Order Foreman:	Model: 963D
	Carrier Name:

Meter Reading: Hours: 9035 on 4/10/2020 by Kraig L. Kuhse  
 Odometer: on by  
 Last Hour Service (Lifetime): 9019 (9019) on 4/8/2020  
 Last Odometer Service (Lifetime): on

**Problem Description:** Bolts came loose out of cab mount.

**Labor Items:**

Work Code	Item Code	ST	OT	DT	
Parts Delivery or Pickup	27 - Cab / Body		0.50	0.00	0.00
Repair	27 - Cab / Body		1.25	0.00	0.00

**Parts List:**

Part Num	Name	UOM	Qty Used	
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**Cost Ledger:**

Type	Ref Num	Description	Estimated Cost
Parts		Invoice #: PC501381879, Item Description: Bolt, Washer, Vendor Name: Ziegler, Inc.	\$0.00

**Reconciled Purchases:**

Part Num	Description	Invoice #	Ref #	Qty Used	
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# Maintenance Work Order

**Work Order:** 47465  
**Priority:** Normal  
**Due Date:**

**Notes:**

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4/9/2020	Kyle J. King	Picked up new bolts from shop and replaced missing bolts for cab mount.
4/8/2020	Kyle J. King	Bolted wiring back up. And tightened existing bolts. Ordered more.

# Maintenance Work Order

**Work Order:** 47230  
**Priority:** Normal  
**Due Date:**

**Scheduling:**

**Status:** Closed  
**Status Date:** 3/30/2020

Mechanic Name	Schedule Date	Work Complete?
John J. Lauber	3/26/2020	<input checked="" type="checkbox"/>

Equipment ID: 22-026	Description: Cat 963D Track Loader
Work Order Job: 19-S328	VIN #
Current Job: 24-R137	Serial # LCS02190
Current Location: 24-R137	License Plate #
Equipment Foreman:	Make: Cat
Work Order Foreman:	Model: 963D
	Carrier Name:

Meter Reading: Hours: 8988 on 3/27/2020 by Kraig L. Kuhse  
 Odometer: on by  
 Last Hour Service (Lifetime): 8817 (8817) on 12/26/2019  
 Last Odometer Service (Lifetime): on

**Problem Description:** A/C not working.

**Labor Items:**

Work Code	Item Code	ST	OT	DT	
Adjust	28 - Air Conditioning / Heating System:Control, Cable, Switch, Relay, Wiring		1.00	0.00	0.00

**Parts List:**

Part Num	Name	UOM	Qty Used	
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**Cost Ledger:**

Type	Ref Num	Description	Estimated Cost	
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**Reconciled Purchases:**

Part Num	Description	Invoice #	Ref #	Qty Used	
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# Maintenance Work Order

**Work Order:** 47230  
**Priority:** Normal  
**Due Date:**

**Notes:**

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3/26/2020      John J. Lauber      Found the system had a slightly low charge. Added refrigerant until pressures looked good.  
Checked operation. Blowing cold.

# Maintenance Work Order

**Work Order:** 46803  
**Priority:** Normal  
**Due Date:**

**Scheduling:**

**Status:** Closed  
**Status Date:** 3/23/2020

Mechanic Name	Schedule Date	Work Complete?
John J. Lauber	2/26/2020	<input checked="" type="checkbox"/>
Taylor J. Anderson	2/27/2020	<input checked="" type="checkbox"/>
Eric P. Nichols	3/6/2020	<input checked="" type="checkbox"/>
Robert W. Dixon	3/7/2020	<input checked="" type="checkbox"/>
Jacob H. Haws	3/13/2020	<input checked="" type="checkbox"/>
Tanner C. Loomis	3/16/2020	<input checked="" type="checkbox"/>

Equipment ID: 22-026	Description: Cat 963D Track Loader
Work Order Job: 19-A281	VIN #
Current Job: 24-R137	Serial # LCS02190
Current Location: 24-R137	License Plate #
Equipment Foreman:	Make: Cat
Work Order Foreman:	Model: 963D
	Carrier Name:

Meter Reading: Hours: 8942 on 3/20/2020 by Kraig L. Kuhse  
 Odometer: on by  
 Last Hour Service (Lifetime): 8817 (8817) on 12/26/2019  
 Last Odometer Service (Lifetime): on

**Problem Description:** Repair inspection. Codes coming up for injectors, replace injectors and injection pump. Right door allows rain to pour in onto the right control panel. Replace coolant access cover lock. Left grab handle bent in the front and bolt broken off. Drain, flush and refill cooling system with new coolant. Re seal both pivot shafts. Replace 5th roller back on right track frame. Fuel transfer pump leaking, replace. Replace engine belts. Re bearing EQ bar and replace rubbers. Straighten radiator door. Repair left cab door glass, PRO AUTO GLASS. Re bearing lower idler pivots. Replace machine chassis harness. Replace cab harness due to data link open short. Replace track rails and sprocket segments. Calibrate powertrain. Replace left cab door hold back latch and cable. Engine ECM lost all settings, FLS, FTS and engine serial number. Ziegler flashed ECM with configurations at our shop.

**Labor Items:**

Work Code	Item Code	ST	OT	DT	
Adjust	11 - Engine:Overhead Adjustment		1.50	0.00	0.00
Calibrate	12 - Transmission / Power Train:Hydrostatic Drive		2.00	0.00	0.00
Calibrate	19 - Cooling System:Engine Hyd Fan Motor, Valve, Sensor, Wiring		2.00	0.00	0.00
Diagnose	13 - Lighting / Charging / Starting System:Cable, Terminals and Wiring		11.50	0.00	0.00
Inspect	10 - Inspection / Cleaning:Repair Inspection		8.00	0.00	0.00

## Maintenance Work Order

**Work Order:** 46803  
**Priority:** Normal  
**Due Date:**

**Labor Items:**

Work Code	Item Code	ST	OT	DT	
Repair	16 - Chassis / Suspension:Equal izer Bar / Hard Bar		15.00	0.00	0.00
Repair	17 - Undercarriage:Idl er Linkage and Pivots		5.50	0.00	0.00
Repair	27 - Cab / Body		0.50	0.00	0.00
Repair	27 - Cab / Body:Belly Pan / All Guards		4.00	0.00	0.00
Repair	27 - Cab / Body:Door Latch / Lock		0.75	0.00	0.00
Repair	27 - Cab / Body:Grab Handle / Hand Rail		2.00	0.00	0.00
Replace	13 - Lighting / Charging / Starting System:Cable, Terminals and Wiring		26.50	0.00	0.00
Replace	15 - Fuel System:Fuel Injection Pump		12.00	0.00	0.00
Replace	15 - Fuel System:Fuel Injectors		9.00	0.00	0.00
Replace	15 - Fuel System:Priming Pump/Transfer Pump		3.00	0.00	0.00
Replace	17 - Undercarriage:Tr ack Rail		5.50	0.00	0.00
Replace	19 - Cooling System:Water Pump		1.00	0.00	0.00
Replace	27 - Cab / Body:Door Latch / Lock		6.50	0.00	0.00
Replace Fluid	19 - Cooling System:Coolant		3.00	0.00	0.00
Reseal	16 - Chassis / Suspension:Pivot Shafts		14.00	0.00	0.00

# Maintenance Work Order

**Work Order:** 46803  
**Priority:** Normal  
**Due Date:**

Parts List:

Part Num	Name	UOM	Qty Used
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Cost Ledger:

Type	Ref Num	Description	Estimated Cost
Parts		Invoice #: PC501375540, Item Description: Strips, Vendor Name: Ziegler, Inc.	\$0.00
Parts		Invoice #: PC501374371, Item Description: Hose As, Spacers, Bolt, Seal, Vendor Name: Ziegler, Inc.	\$0.00
Parts		Invoice #: SW500214565, Item Description: Troubleshoot Engine, Vendor Name: Ziegler, Inc.	\$0.00
Parts		Invoice #: PC501377089, Item Description: Latch As, Cable As, Strap Cabl, Vendor Name: Ziegler, Inc.	\$0.00
Parts		Invoice #: PC501376856, Item Description: Harness As, Vendor Name: Ziegler, Inc.	\$0.00
Parts		Invoice #: PC501374580, Item Description: Washer, Fuel Fitting, Seal Ori, Vendor Name: Ziegler, Inc.	\$0.00
Parts		Invoice #: PR500134307, Item Description: Strip, Vendor Name: Ziegler, Inc.	\$0.00
Parts		Invoice #: PC501376855, Item Description: Harness As, Vendor Name: Ziegler, Inc.	\$0.00
Parts		Invoice #: PR500134254, Item Description: Gasket Pump, Vendor Name: Ziegler, Inc.	\$0.00
Parts		Invoice #: PC501374574, Item Description: Pin A, Vendor Name: Ziegler, Inc.	\$0.00
Parts		Invoice #: SW500214222, Item Description: Undercarriage, Track Shoe, , Vendor Name: Ziegler, Inc.	\$0.00
Parts		Invoice #: PC501376033, Item Description: Strip, Vendor Name: Ziegler, Inc.	\$0.00
Parts		Invoice #: PC501376536, Item Description: Seal O-rings, Seal, Vendor Name: Ziegler, Inc.	\$0.00
Parts		Invoice #: pr500134438, Item Description: Latch As, Vendor Name: Ziegler, Inc.	\$0.00
Parts		Invoice #: PC501375550, Item Description: Thermostat, Gasket-Hou, Vendor Name: Ziegler, Inc.	\$0.00

# Maintenance Work Order

**Work Order:** 46803  
**Priority:** Normal  
**Due Date:**

Cost Ledger:

Type	Ref Num	Description	Estimated Cost
Parts		Invoice #: PR500134256, Item Description: Core Credit, Vendor Name: Ziegler, Inc.	\$0.00
Parts		Invoice #: PC501376034, Item Description: CM Seal, Cap As, Lock As, Scre, Vendor Name: Ziegler, Inc.	\$0.00
Parts		Invoice #: PC501374143, Item Description: Seal A, Bearings, Ring, Seal, Vendor Name: Ziegler, Inc.	\$0.00
Parts		Invoice #: PC501375557, Item Description: Washer, Seal O-ring, Vendor Name: Ziegler, Inc.	\$0.00
Parts		Invoice #: PC501374144, Item Description: Fanbelt, Vendor Name: Ziegler, Inc.	\$0.00
Parts		Invoice #: 40284, Item Description: R&R Door Glass, Corrosion Trea, Vendor Name: Pro Auto Glass	\$0.00
Parts		Invoice #: PR500134255, Item Description: Core Credit, Vendor Name: Ziegler, Inc.	\$0.00
Parts		Invoice #: PC501375554, Item Description: Sleeve-Injec, Vendor Name: Ziegler, Inc.	\$0.00
Parts		Invoice #: PC501374575, Item Description: Bearing-Sleeve, Plate, Bolt- Tr, Vendor Name: Ziegler, Inc.	\$0.00
Parts		Invoice #: pr500134544, Item Description: Core Credit, Vendor Name: Ziegler, Inc.	\$0.00
Parts		Invoice #: SW500214222, Item Description: Undercarriage, Track Shoe, , Vendor Name: Ziegler, Inc.	\$0.00
Parts		Invoice #: PR500134307, Item Description: Restock Charge, Vendor Name: Ziegler, Inc.	\$0.00
Parts		Invoice #: pr500134543, Item Description: Core Credit, Vendor Name: Ziegler, Inc.	\$0.00
Parts		Invoice #: PC501375553, Item Description: Pump G Fuel, Core Charge, Tube, Vendor Name: Ziegler, Inc.	\$0.00
Parts		Invoice #: PC501374851, Item Description: Housing As, Plate, Block, Vendor Name: Ziegler, Inc.	\$0.00
Parts		Invoice #: PC501374858, Item Description: Bearing, Seal, Plate, Spring, , Vendor Name: Ziegler, Inc.	\$0.00
Parts		Invoice #: PC501375546, Item Description: Inj Gp Fuel, Core Charge, , Vendor Name: Ziegler, Inc.	\$0.00
Parts		Invoice #: PC501377590, Item Description: Latch As, Striker As, Vendor Name: Ziegler, Inc.	\$0.00

# Maintenance Work Order

**Work Order:** 46803  
**Priority:** Normal  
**Due Date:**

**Cost Ledger:**

Type	Ref Num	Description	Estimated Cost
Parts		Invoice #: PC501374145, Item Description: Kit-Pump, Gasket-Pump, Vendor Name: Ziegler, Inc.	\$0.00
Parts		Invoice #: PC501376032, Item Description: Harness As, Vendor Name: Ziegler, Inc.	\$0.00
Parts		Invoice #: PC501374863, Item Description: Sleeve, Bearing-Sleeve, Pin, S, Vendor Name: Ziegler, Inc.	\$0.00
Parts		Invoice #: PC501376036, Item Description: Seal, Vendor Name: Ziegler, Inc.	\$0.00
Parts		Invoice #: PR500134405, Item Description: Seal, Seal O-ring, Vendor Name: Ziegler, Inc.	\$0.00

**Reconciled Purchases:**

Part Num	Description	Invoice #	Ref #	Qty Used
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**Notes:**

3/18/2020	Taylor J. Anderson	3/17/2020- Worked with Ziegler tech to get all fuel settings and engine ECM configurations from previous product status report reprogrammed into ECM. All settings took and we calibrated demand fan speed. Will need to monitor machine to see if ECM starts to lose settings again, if settings go away the ECM internal battery has failed and the ECM will need replaced.		
3/17/2020	John J. Lauber	Replaced the left cab door hold open latch and cable.		
3/16/2020	Tanner C. Loomis	Install belly pans, floor mat and plate, and tank guard. Two bolts for belly pan were stripped out had to tap out and get them to tighten at all. Started lifting cab to replace door cable.		
3/16/2020	Taylor J. Anderson	3/16/2020- Installed left cab door and adjusted door hinge. Installed new strikers and left door latch, waiting on new right hand door latch and left door hold back latch and release cable. Pulled machine into wash bay.		
3/16/2020	Taylor J. Anderson	3/14/2020- Finished installing right track and tightened track master bolts to 370 plus an additional 120 degree turn. Warmed transmission fluid up to above 104 degrees and calibrated powertrain. Need to look into codes for engine ECM loosing FLS,FTS and engine serial number.		
3/14/2020	Jacob H. Haws	Finished left track torque pad. Wrapped right track torque pad. Adjusted tracks. Finished securing wire harness. Cleaned up bay.		
3/14/2020	Taylor J. Anderson	3/13/2020- Got new harness in and worked with Jacob to get chassis harness installed into machine. Started and ran machine and have same issue with engine ECM not showing any data or information, Ziegler will have to replace engine ECM or try to update software. Started wrapping tracks, got left side wrapped.		
3/13/2020	Jacob H. Haws	Helped install chassis harness and secured. Wrapped left track.		

## Maintenance Work Order

**Work Order:** 46803  
**Priority:** Normal  
**Due Date:**

3/12/2020	Taylor J. Anderson	3/10/2020- Removed old cab harness and started installing new harness.
3/12/2020	Taylor J. Anderson	3/11/2020- Finished installing cab harness and removed machine platform harness. Replaced upper right cab seal where water was coming in. Repaired rear radiator compartment door lock bar, welded up and ground flat.
3/10/2020	Eric P. Nichols	Diagnosed data link fault code without any troubleshooting guidelines, none in SIS and TC couldn't find anything either. Found that wiring to CAN resistor is open to the rest of CAN network in cab. Ordered cab harness. Removed air cleaner, air to air hose. Removed valve cover and rocker arms. Removed fuel injectors and cleaned bores. Installed reman injectors, new sleeves and injection lines. Installed fuel pump gear, front cover, damper and pulley. Install new high pressure fuel line from pump to fuel rail.
3/10/2020	Taylor J. Anderson	3/09/2020- Finished connecting all lines, hoses and electrical connectors for injection pump. Installed valve rocker shaft and arms and tightened to 26 foot pounds starting from the inside bolts and working my way out to prevent warping shaft. Adjusted overhead while valve cover was off since rocker shaft was remove for injector replacement. Installed valve cover with new gasket seal tightening to 53 IN. pounds. Filled machine with engine oil and programmed injector trim codes. Filled cooling system with coolant flush and water, ran machine and got hot, flushed cooling system several times until water coming out was clear. Refilled cooling system with clean ELC from the reel. Cleaned around where harness goes around foot pedals for harness replacement.
3/9/2020	Taylor J. Anderson	3/6/2020- Finished installing left roller frame tightening mounting bolts to 175 foot pounds. Filled both pivot shafts with SAE 50W oil. Drained coolant from machine in order to remove water pump for replacement and to have front cover removed to replace fuel pump. Got fuel pump removed and new pump installed, tightened 3 mounting bolts to 18 foot pounds. Eric will finish up installing front of engine on Saturday 3/7/2020. Helped Eric diagnose electrical issues in cab causing abnormal update codes on machine ECM. Ordered new cab harness.
3/6/2020	Taylor J. Anderson	3/5/2020- Finished installing bearings in lower pivots on idlers. Installed onto roller frames and tightened lower pivot mount bolts to 175 foot pounds, greased bearings. Installed EQ bar into frame, had to repair tooling in order to get threaded rod to wok. Got mounts compressed and installed bar and new pin into machine. Installed right roller frame. Replaced bearings in both roller frames while it was off of machine.
3/5/2020	Taylor J. Anderson	3/4/2020- Finished removing front idler yoke pins and lower pivots. Removed pivot sleeve and cleaned shafts to install new wear sleeves. Installed new sleeves and yoke bearings on both idler assemblies and reinstalled onto roller frames. Need to replace bearings in lower pivot brackets and get them reinstalled onto the machine.
3/5/2020	Taylor J. Anderson	3/3/2020- Remove rear radiator door and straighten in press. Adjust door hinge to allow door to open and shut freely without binding up. Removed left track assembly after cleaning out all the dirt to get access to bolts. Pulled track and wrapped up to send to Ziegler for new rails. Removed left roller frame and brought frames into wash bay to clean in order to remove front idlers and rebearing the lower pivots and yoke bearings. Started disassembly of front idlers.
3/3/2020	Taylor J. Anderson	3/2/2020- Put machine on stands and detensioned right track. Removed track from machine, removed right track roller frame. When the out cover for the pivot shaft bolts was removed all 3 inner bolts were loose and 2 of them were not even threaded into the pivot shaft. Removed EQ bar from machine, removed all bearings and seals from hard bad and cleaned up. Installed all new bearings, snap rings and grease seals into EQ bar.
2/28/2020	Taylor J. Anderson	2/27/2020- Removed all belly pans and guards around hydraulic tank. Inspected machine for needed repairs and ordered parts.
2/26/2020	John J. Lauber	Checked machine, found codes for all the injectors had come up 6 times each. Also found 127 codes for the engine ECM and the machine ECM signals. I think there is a problem with the CANBUS network.

# Maintenance Work Order

**Work Order:** 45959  
**Priority:** Normal  
**Due Date:**

**Scheduling:**

**Status:** Closed  
**Status Date:** 12/30/2019

Mechanic Name	Schedule Date	Work Complete?
Christopher J. Murano	12/20/2019	<input checked="" type="checkbox"/>
Timothy M. Kirkman	12/20/2019	<input checked="" type="checkbox"/>

Equipment ID: 22-026	Description: Cat 963D Track Loader
Work Order Job: 19-S335	VIN #
Current Job: 24-R137	Serial # LCS02190
Current Location: 24-R137	License Plate #
Equipment Foreman:	Make: Cat
Work Order Foreman:	Model: 963D
	Carrier Name:

Meter Reading: Hours: 8817 on 12/26/2019 by Christopher J. Murano

Odometer: on by  
 Last Hour Service (Lifetime): 8817 (8817) on 12/26/2019  
 Last Odometer Service (Lifetime): on

Problem Description: PM2/500hr.

**Labor Items:**

Work Code	Item Code	ST	OT	DT	
Perform	26 - PM / Service:PM's Hours:PM2/500		6.00	0.00	0.00

**Parts List:**

Part Num	Name	UOM	Qty Used	
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**Cost Ledger:**

Type	Ref Num	Description	Estimated Cost	
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**Reconciled Purchases:**

Part Num	Description	Invoice #	Ref #	Qty Used	
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# Maintenance Work Order

**Work Order:** 45959  
**Priority:** Normal  
**Due Date:**

Notes:

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# Maintenance Work Order

**Work Order:** 45757  
**Priority:** Normal  
**Due Date:**

**Scheduling:**

**Status:** Closed  
**Status Date:** 12/17/2019

Mechanic Name	Schedule Date	Work Complete?
Taylor J. Anderson	12/10/2019	<input checked="" type="checkbox"/>

Equipment ID: 22-026	Description: Cat 963D Track Loader
Work Order Job: 18-S593	VIN #
Current Job: 24-R137	Serial # LCS02190
Current Location: 24-R137	License Plate #
Equipment Foreman:	Make: Cat
Work Order Foreman:	Model: 963D
	Carrier Name:

Meter Reading: Hours: 8768 on 12/16/2019 by Jeff Lewis  
 Odometer: on by  
 Last Hour Service (Lifetime): 8599 (8599) on 11/11/2019  
 Last Odometer Service (Lifetime): on

**Problem Description:** Left cab door hold back latch frozen.

**Labor Items:**

Work Code	Item Code	ST	OT	DT	
Repair	27 - Cab / Body:Door Latch / Lock		1.00	0.00	0.00

**Parts List:**

Part Num	Name	UOM	Qty Used	
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**Cost Ledger:**

Type	Ref Num	Description	Estimated Cost	
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**Reconciled Purchases:**

Part Num	Description	Invoice #	Ref #	Qty Used	
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**Notes:**

12/12/2019 Taylor J. Anderson 12/10/19- Adjusted and lubed left door hold back latch and cable.

# Maintenance Work Order

**Work Order:** 45007  
**Priority:** Normal  
**Due Date:**

**Scheduling:**

**Status:** Closed  
**Status Date:** 11/20/2019

Mechanic Name	Schedule Date	Work Complete?
Christopher J. Murano	11/2/2019	<input checked="" type="checkbox"/>
Timothy M. Kirkman	11/2/2019	<input checked="" type="checkbox"/>

Equipment ID: 22-026	Description: Cat 963D Track Loader
Work Order Job: 18-S593	VIN #
Current Job: 24-R137	Serial # LCS02190
Current Location: 24-R137	License Plate #
Equipment Foreman:	Make: Cat
Work Order Foreman:	Model: 963D
	Carrier Name:

Meter Reading: Hours: 8599 on 11/11/2019 by Timothy M. Kirkman  
 Odometer: on by  
 Last Hour Service (Lifetime): 8599 (8599) on 11/11/2019  
 Last Odometer Service (Lifetime): on

**Problem Description:** PM1/250hr. Add ELC extender to cooling system. Inspect air intake for being plugged with flyash.

**Labor Items:**

Work Code	Item Code	ST	OT	DT	
Perform	26 - PM / Service:PM's Hours:PM1/250		7.00	0.00	0.00

**Parts List:**

Part Num	Name	UOM	Qty Used	
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**Cost Ledger:**

Type	Ref Num	Description	Estimated Cost	
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**Reconciled Purchases:**

Part Num	Description	Invoice #	Ref #	Qty Used	
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# Maintenance Work Order

**Work Order:** 45007  
**Priority:** Normal  
**Due Date:**

**Notes:**

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11/11/2019 Timothy M. Kirkman Added coolant extender, and pulled apart ait intake and blew it out. Wasn't that bad.

# Maintenance Work Order

**Work Order:** 44696  
**Priority:** Normal  
**Due Date:**

**Scheduling:**

**Status:** Closed  
**Status Date:** 10/29/2019

Mechanic Name	Schedule Date	Work Complete?
John J. Lauber	10/22/2019	<input checked="" type="checkbox"/>
Mark E. McNaughton	10/22/2019	<input checked="" type="checkbox"/>

Equipment ID: 22-026	Description: Cat 963D Track Loader
Work Order Job: 18-S593	VIN #
Current Job: 24-R137	Serial # LCS02190
Current Location: 24-R137	License Plate #
Equipment Foreman:	Make: Cat
Work Order Foreman:	Model: 963D
	Carrier Name:

Meter Reading: Hours: 8496 on 10/28/2019 by Trevor L. Williams  
 Odometer: on by  
 Last Hour Service (Lifetime): 8347 (8347) on 10/4/2019  
 Last Odometer Service (Lifetime): on

**Problem Description:** Machine will not start.

**Labor Items:**

Work Code	Item Code	ST	OT	DT	
Diagnose	13 - Lighting / Charging / Starting System:Batteries		2.00	0.00	0.00
Replace	13 - Lighting / Charging / Starting System:Batteries		2.00	0.00	0.00

**Parts List:**

Part Num	Name	UOM	Qty Used	
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**Cost Ledger:**

Type	Ref Num	Description	Estimated Cost
Parts		Invoice #: PC501352571, Item Description: Battery, Vendor Name: Ziegler, Inc.	\$0.00

**Reconciled Purchases:**

Part Num	Description	Invoice #	Ref #	Qty Used
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# Maintenance Work Order

**Work Order:** 44696  
**Priority:** Normal  
**Due Date:**

Notes:

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- 10/23/2019 John J. Lauber Tried to jumpstart batteries. Found 1 bad battery. Ordered parts from Ziegler.
- 10/23/2019 Mark E. McNaughton Replace both batteries

# Maintenance Work Order

**Work Order:** 44645  
**Priority:** Normal  
**Due Date:**

**Scheduling:**

**Status:** Closed  
**Status Date:** 10/22/2019

Mechanic Name	Schedule Date	Work Complete?
Kyle J. King	10/19/2019	<input checked="" type="checkbox"/>

Equipment ID: 22-026	Description: Cat 963D Track Loader
Work Order Job: 18-S593	VIN #
Current Job: 24-R137	Serial # LCS02190
Current Location: 24-R137	License Plate #
Equipment Foreman:	Make: Cat
Work Order Foreman:	Model: 963D
	Carrier Name:

Meter Reading: Hours: 8455 on 10/19/2019 by Trevor L. Williams  
 Odometer: on by  
 Last Hour Service (Lifetime): 8347 (8347) on 10/4/2019  
 Last Odometer Service (Lifetime): on

**Problem Description:** Check out codes.

**Labor Items:**

Work Code	Item Code	ST	OT	DT	
Inspect	11 - Engine:ECM		1.50	0.00	0.00

**Parts List:**

Part Num	Name	UOM	Qty Used
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**Cost Ledger:**

Type	Ref Num	Description	Estimated Cost
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**Reconciled Purchases:**

Part Num	Description	Invoice #	Ref #	Qty Used
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**Notes:**

10/19/2019 Kyle J. King Inspected codes. One for ECM abnormal rate but a few hours old and another for quick tach pressure over 20 hours old.

# Maintenance Work Order

**Work Order:** 44212  
**Priority:** Normal  
**Due Date:**

**Scheduling:**

**Status:** Closed  
**Status Date:** 10/9/2019

Mechanic Name	Schedule Date	Work Complete?
Christopher J. Murano	10/1/2019	<input checked="" type="checkbox"/>
Timothy M. Kirkman	10/1/2019	<input checked="" type="checkbox"/>

Equipment ID: 22-026	Description: Cat 963D Track Loader
Work Order Job: 18-S585	VIN #
Current Job: 24-R137	Serial # LCS02190
Current Location: 24-R137	License Plate #
Equipment Foreman:	Make: Cat
Work Order Foreman:	Model: 963D
	Carrier Name:

Meter Reading: Hours: 8347 on 10/4/2019 by Christopher J. Murano

Odometer: on by  
 Last Hour Service (Lifetime): 8347 (8347) on 10/4/2019  
 Last Odometer Service (Lifetime): on

Problem Description: PM4/2000hr.

**Labor Items:**

Work Code	Item Code	ST	OT	DT	
Perform	26 - PM / Service:PM's Hours:PM4/2,000		10.00	0.00	0.00

**Parts List:**

Part Num	Name	UOM	Qty Used	
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**Cost Ledger:**

Type	Ref Num	Description	Estimated Cost	
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**Reconciled Purchases:**

Part Num	Description	Invoice #	Ref #	Qty Used	
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# Maintenance Work Order

**Work Order:** 44212  
**Priority:** Normal  
**Due Date:**

**Notes:**

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10/4/2019 Christopher J. Murano Coolant access cover needs the lock replaced.

# Maintenance Work Order

**Work Order:** 43892  
**Priority:** Normal  
**Due Date:**

**Scheduling:**

**Status:** Closed  
**Status Date:** 9/24/2019

Mechanic Name	Schedule Date	Work Complete?
Mark E. McNaughton	9/17/2019	<input checked="" type="checkbox"/>

Equipment ID: 22-026	Description: Cat 963D Track Loader
Work Order Job: 18-S585	VIN #
Current Job: 24-R137	Serial # LCS02190
Current Location: 24-R137	License Plate #
Equipment Foreman:	Make: Cat
Work Order Foreman:	Model: 963D
	Carrier Name:

Meter Reading: Hours: 8276 on 9/21/2019 by Trevor L. Williams  
 Odometer: on by  
 Last Hour Service (Lifetime): 8130 (8130) on 8/29/2019  
 Last Odometer Service (Lifetime): on

**Problem Description:** Leak on quick attach hoses.

**Labor Items:**

Work Code	Item Code	ST	OT	DT	
Replace	14 - Hydraulic System:Hydraulic Fittings / Lines		3.00	0.00	0.00

**Parts List:**

Part Num	Name	UOM	Qty Used	
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**Cost Ledger:**

Type	Ref Num	Description	Estimated Cost
Parts		Invoice #: PC501346302, Item Description: HOSE AS, Vendor Name: Ziegler, Inc.	\$0.00

**Reconciled Purchases:**

Part Num	Description	Invoice #	Ref #	Qty Used	
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**Notes:**

9/18/2019 Mark E. McNaughton Replace quick attach hoses

# Maintenance Work Order

**Work Order:** 43410  
**Priority:** Normal  
**Due Date:**

**Scheduling:**

**Status:** Closed  
**Status Date:** 9/3/2019

Mechanic Name	Schedule Date	Work Complete?
John J. Lauber	8/22/2019	<input checked="" type="checkbox"/>
Mark E. McNaughton	8/26/2019	<input checked="" type="checkbox"/>

Equipment ID: 22-026	Description: Cat 963D Track Loader
Work Order Job: 18-S593	VIN #
Current Job: 24-R137	Serial # LCS02190
Current Location: 24-R137	License Plate #
Equipment Foreman:	Make: Cat
Work Order Foreman:	Model: 963D
	Carrier Name:

Meter Reading: Hours: 8144 on 9/3/2019 by Trevor L. Williams  
 Odometer: on by  
 Last Hour Service (Lifetime): 8130 (8130) on 8/29/2019  
 Last Odometer Service (Lifetime): on

**Problem Description:** Machine low on power, air filters are plugged up. Coolant tank cracked and leaking. Air filter restriction alert not working.

**Labor Items:**

Work Code	Item Code	ST	OT	DT	
Clean	10 - Inspection / Cleaning:Clean Out Cab Filter, Condenser, Radiator		1.50	0.00	0.00
Diagnose	11 - Engine:Air Filter Restriction Gauge		2.00	0.00	0.00
Replace	11 - Engine:Air Filter Restriction Gauge		1.00	0.00	0.00
Replace	19 - Cooling System:Coolant Reservoir / Overflow Tank		1.50	0.00	0.00

**Parts List:**

Part Num	Name	UOM	Qty Used	
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# Maintenance Work Order

**Work Order:** 43410  
**Priority:** Normal  
**Due Date:**

## Cost Ledger:

Type	Ref Num	Description	Estimated Cost
Parts		Invoice #: PC501341877, Item Description: Tank GP-cool, Vendor Name: Ziegler, Inc.	\$0.00
Parts		Invoice #: PC501342373, Item Description: Indicator, Vendor Name: Ziegler, Inc.	\$0.00

## Reconciled Purchases:

Part Num	Description	Invoice #	Ref #	Qty Used
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## Notes:

8/28/2019 Mark E. McNaughton Replace sensor and filters

8/24/2019 John J. Lauber 8/22/19 - Cleaned out air filters and cooling group.

8/24/2019 John J. Lauber Replaced coolant tank and filled coolant. Checked wiring for the air filter restriction warning. Found 1 wire shorted to the ground level shutoff switch. Could not find a break in the harness.

# Maintenance Work Order

**Work Order:** 43476  
**Priority:** Normal  
**Due Date:**

**Scheduling:**

**Status:** Closed  
**Status Date:** 9/3/2019

Mechanic Name	Schedule Date	Work Complete?
Christopher J. Murano	8/26/2019	<input checked="" type="checkbox"/>
Timothy M. Kirkman	8/26/2019	<input checked="" type="checkbox"/>

Equipment ID: 22-026	Description: Cat 963D Track Loader
Work Order Job: 18-S593	VIN #
Current Job: 24-R137	Serial # LCS02190
Current Location: 24-R137	License Plate #
Equipment Foreman:	Make: Cat
Work Order Foreman:	Model: 963D
	Carrier Name:

Meter Reading: Hours: 8130 on 8/29/2019 by Timothy M. Kirkman  
 Odometer: on by  
 Last Hour Service (Lifetime): 8130 (8130) on 8/29/2019  
 Last Odometer Service (Lifetime): on

Problem Description: PM1/250hr.

**Labor Items:**

Work Code	Item Code	ST	OT	DT	
Perform	26 - PM / Service:PM's Hours:PM1/250		6.00	0.00	0.00

**Parts List:**

Part Num	Name	UOM	Qty Used	
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**Cost Ledger:**

Type	Ref Num	Description	Estimated Cost	
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**Reconciled Purchases:**

Part Num	Description	Invoice #	Ref #	Qty Used	
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# Maintenance Work Order

**Work Order:** 43476  
**Priority:** Normal  
**Due Date:**

**Notes:**

8/29/2019 Timothy M. Kirkman Adjusted left track. Replaced 2 padlocks. Operator says rain comes in the right side cab door and soaks the control panel. Had to wait for machine to service .

# Maintenance Work Order

**Work Order:** 42794  
**Priority:** Normal  
**Due Date:**

**Scheduling:**

**Status:** Closed  
**Status Date:** 7/30/2019

Mechanic Name	Schedule Date	Work Complete?
Christopher J. Murano	7/22/2019	<input checked="" type="checkbox"/>
Timothy M. Kirkman	7/22/2019	<input checked="" type="checkbox"/>

Equipment ID: 22-026	Description: Cat 963D Track Loader
Work Order Job: 19-S308	VIN #
Current Job: 24-R137	Serial # LCS02190
Current Location: 24-R137	License Plate #
Equipment Foreman:	Make: Cat
Work Order Foreman:	Model: 963D
	Carrier Name:

Meter Reading: Hours: 7903 on 7/24/2019 by Christopher J. Murano

Odometer: on by  
 Last Hour Service (Lifetime): 7903 (7903) on 7/24/2019  
 Last Odometer Service (Lifetime): on

Problem Description: PM2/500hr.

**Labor Items:**

Work Code	Item Code	ST	OT	DT	
Perform	26 - PM / Service:PM's Hours:PM2/500		2.50	0.00	0.00

**Parts List:**

Part Num	Name	UOM	Qty Used	
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**Cost Ledger:**

Type	Ref Num	Description	Estimated Cost	
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**Reconciled Purchases:**

Part Num	Description	Invoice #	Ref #	Qty Used	
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# Maintenance Work Order

**Work Order:** 42794  
**Priority:** Normal  
**Due Date:**

**Notes:**

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7/24/2019 Christopher J. Murano Washed machine.

# Maintenance Work Order

**Work Order:** 42542  
**Priority:** Normal  
**Due Date:**

**Scheduling:**

**Status:** Closed  
**Status Date:** 7/17/2019

Mechanic Name	Schedule Date	Work Complete?
John J. Lauber	7/10/2019	<input checked="" type="checkbox"/>
Eric P. Nichols	7/11/2019	<input checked="" type="checkbox"/>
Wade J. Smith	7/11/2019	<input checked="" type="checkbox"/>

Equipment ID: 22-026	Description: Cat 963D Track Loader
Work Order Job: 18-S573	VIN #
Current Job: 24-R137	Serial # LCS02190
Current Location: 24-R137	License Plate #
Equipment Foreman:	Make: Cat
Work Order Foreman:	Model: 963D
	Carrier Name:

Meter Reading: Hours: 7849 on 7/2/2019 by Jeff Lewis  
 Odometer: on by  
 Last Hour Service (Lifetime): 7683 (7683) on 5/30/2019  
 Last Odometer Service (Lifetime): on

**Problem Description:** A/C not working. Replace sprocket segments. Plates the hold quick attack pin cylinders broke.

**Labor Items:**

Work Code	Item Code	ST	OT	DT	
Diagnose	28 - Air Conditioning / Heating System: Cab Air Filter		1.00	0.00	0.00
Inspect	10 - Inspection / Cleaning: Repair Inspection		0.50	0.00	0.00
Repair	25 - Attachments: Quick Attach for Bucket / Attachment		5.00	0.00	0.00
Replace	17 - Undercarriage: Segments		4.00	0.00	0.00

**Parts List:**

Part Num	Name	UOM	Qty Used	
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# Maintenance Work Order

**Work Order:** 42542  
**Priority:** Normal  
**Due Date:**

## Cost Ledger:

Type	Ref Num	Description	Estimated Cost
Parts		Invoice #: PC501333843, Item Description: Bolt and Nut, Vendor Name: Ziegler, Inc.	\$0.00
Parts		Invoice #: PR500130535A, Item Description: CR Track Bolt, Vendor Name: Ziegler, Inc.	\$0.00

## Reconciled Purchases:

Part Num	Description	Invoice #	Ref #	Qty Used
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## Notes:

7/12/2019	Wade J. Smith	Plates for both quick attach cylinder pins were cracked, bent and busted loose. Gouge weld away and pull both plates. Straighten plates in press, grind the rest of the weld away. Weld in place and touch up paint. Park along berm for mechanic to look over unit.
7/11/2019	Eric P. Nichols	Looked machine over.
7/10/2019	John J. Lauber	Found low air flow to the vents in the cab. Moved box of towels from in front of the recirculation filter. Blew out recirculation and fresh air filters. Much better air flow. A/C blowing at 48 degrees.

# Maintenance Work Order

**Work Order:** 41443  
**Priority:** Normal  
**Due Date:**

**Scheduling:**

**Status:** Closed  
**Status Date:** 6/10/2019

Mechanic Name	Schedule Date	Work Complete?
Mark E. McNaughton	5/10/2019	<input checked="" type="checkbox"/>

Equipment ID: 22-026	Description: Cat 963D Track Loader
Work Order Job: 18-S598	VIN #
Current Job: 24-R137	Serial # LCS02190
Current Location: 24-R137	License Plate #
Equipment Foreman:	Make: Cat
Work Order Foreman:	Model: 963D
	Carrier Name:

Meter Reading: Hours: 7745 on 6/8/2019 by Kraig L. Kuhse  
 Odometer: on by  
 Last Hour Service (Lifetime): 7683 (7683) on 5/30/2019  
 Last Odometer Service (Lifetime): on

**Problem Description:** Clean cooling group and filters

**Labor Items:**

Work Code	Item Code	ST	OT	DT	
Clean	19 - Cooling System		1.50	0.00	0.00

**Parts List:**

Part Num	Name	UOM	Qty Used	
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**Cost Ledger:**

Type	Ref Num	Description	Estimated Cost	
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**Reconciled Purchases:**

Part Num	Description	Invoice #	Ref #	Qty Used	
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**Notes:**

5/10/2019 Mark E. McNaughton CXlean cooling group and filters

# Maintenance Work Order

**Work Order:** 41639  
**Priority:** Normal  
**Due Date:**

**Scheduling:**

**Status:** Closed  
**Status Date:** 6/4/2019

Mechanic Name	Schedule Date	Work Complete?
Christopher J. Murano	5/24/2019	<input checked="" type="checkbox"/>
Timothy M. Kirkman	5/24/2019	<input checked="" type="checkbox"/>

Equipment ID: 22-026	Description: Cat 963D Track Loader
Work Order Job: 18-S592	VIN #
Current Job: 24-R137	Serial # LCS02190
Current Location: 24-R137	License Plate #
Equipment Foreman:	Make: Cat
Work Order Foreman:	Model: 963D
	Carrier Name:

Meter Reading: Hours: 7683 on 5/30/2019 by Christopher J. Murano

Odometer: on by  
 Last Hour Service (Lifetime): 7683 (7683) on 5/30/2019  
 Last Odometer Service (Lifetime): on

**Problem Description:** PM1/250hr. Add ELC extender to cooling system. Change oil in both final drives.

**Labor Items:**

Work Code	Item Code	ST	OT	DT	
Add Fluid	19 - Cooling System:Coolant Extender Additive		0.50	0.00	0.00
Perform	26 - PM / Service:PM's Hours:PM1/250		7.00	0.00	0.00
Replace Fluid	18 - Final Drive:Final Drive Oil		2.50	0.00	0.00

**Parts List:**

Part Num	Name	UOM	Qty Used	

**Cost Ledger:**

Type	Ref Num	Description	Estimated Cost	

**Reconciled Purchases:**

Part Num	Description	Invoice #	Ref #	Qty Used	

# Maintenance Work Order

**Work Order:** 41639  
**Priority:** Normal  
**Due Date:**

Notes:

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# Maintenance Work Order

**Work Order:** 40999  
**Priority:** Normal  
**Due Date:**

**Scheduling:**

**Status:** Closed  
**Status Date:** 4/30/2019

Mechanic Name	Schedule Date	Work Complete?
Mark E. McNaughton	4/22/2019	<input checked="" type="checkbox"/>

Equipment ID: 22-026	Description: Cat 963D Track Loader
Work Order Job: 18-S584	VIN #
Current Job: 24-R137	Serial # LCS02190
Current Location: 24-R137	License Plate #
Equipment Foreman:	Make: Cat
Work Order Foreman:	Model: 963D
	Carrier Name:

Meter Reading: Hours: 7510 on 4/29/2019 by Jeff Lewis  
 Odometer: on by  
 Last Hour Service (Lifetime): 7464 (7464) on 4/22/2019  
 Last Odometer Service (Lifetime): on

**Problem Description:** Fuel line rubbed hole between fuel filters. Muffler is cracked, replace.

**Labor Items:**

Work Code	Item Code	ST	OT	DT	
Replace	11 - Engine:Muffler		2.00	0.00	0.00
Replace	15 - Fuel System:Fuel Injection Lines		2.00	0.00	0.00

**Parts List:**

Part Num	Name	UOM	Qty Used	
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**Cost Ledger:**

Type	Ref Num	Description	Estimated Cost
Parts		Invoice #: PC501319492, Item Description: TUBE-HP PUMP, Vendor Name: Ziegler, Inc.	\$0.00
Parts		Invoice #: PC501319489, Item Description: TUBE-FILTER, Vendor Name: Ziegler, Inc.	\$0.00
Parts		Invoice #: PC501319755, Item Description: MUFFLER AS, CLAMP BENT B, Vendor Name: Ziegler, Inc.	\$0.00

**Reconciled Purchases:**

Part Num	Description	Invoice #	Ref #	Qty Used
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# Maintenance Work Order

**Work Order:** 40999  
**Priority:** Normal  
**Due Date:**

**Notes:**

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- 4/25/2019 Mark E. McNaughton Replace cracked muffler
- 4/23/2019 Mark E. McNaughton Replace two fuel lines going from transfer pump to fuel filter and one between the two fuel filters

# Maintenance Work Order

**Work Order:** 40938  
**Priority:** Normal  
**Due Date:**

**Scheduling:**

**Status:** Closed  
**Status Date:** 4/30/2019

Mechanic Name	Schedule Date	Work Complete?
Christopher J. Murano	4/17/2019	<input checked="" type="checkbox"/>
Timothy M. Kirkman	4/17/2019	<input checked="" type="checkbox"/>

Equipment ID: 22-026	Description: Cat 963D Track Loader
Work Order Job: 18-S598	VIN #
Current Job: 24-R137	Serial # LCS02190
Current Location: 24-R137	License Plate #
Equipment Foreman:	Make: Cat
Work Order Foreman:	Model: 963D
	Carrier Name:

Meter Reading: Hours: 7464 on 4/22/2019 by Timothy M. Kirkman  
 Odometer: on by  
 Last Hour Service (Lifetime): 7464 (7464) on 4/22/2019  
 Last Odometer Service (Lifetime): on

Problem Description: PM3/1000hr.

**Labor Items:**

Work Code	Item Code	ST	OT	DT	
Perform	26 - PM / Service:PM's Hours:PM3/1,000		8.00	0.00	0.00

**Parts List:**

Part Num	Name	UOM	Qty Used	
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**Cost Ledger:**

Type	Ref Num	Description	Estimated Cost	
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**Reconciled Purchases:**

Part Num	Description	Invoice #	Ref #	Qty Used	
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# Maintenance Work Order

**Work Order:** 40938  
**Priority:** Normal  
**Due Date:**

**Notes:**

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4/23/2019 Timothy M. Kirkman Was told to come out and service machine . Machine was broke down and locked out when we got there. Doug brought parts to Mark and was running shortly there after. Showed Mark that the muffler was cracking and he ordered a new one.

# Maintenance Work Order

**Work Order:** 40545  
**Priority:** Normal  
**Due Date:**

**Scheduling:**

**Status:** Closed  
**Status Date:** 4/2/2019

Mechanic Name	Schedule Date	Work Complete?
Mark E. McNaughton	3/27/2019	<input checked="" type="checkbox"/>

Equipment ID: 22-026 Description: Cat 963D Track Loader  
Work Order Job: 18-S598 VIN #  
Current Job: 24-R137 Serial # LCS02190  
Current Location: 24-R137 License Plate #  
Equipment Foreman: Make: Cat  
Work Order Foreman: Model: 963D  
Carrier Name:

Meter Reading: Hours: 7365 on 3/29/2019 by Kraig L. Kuhse  
Odometer: on by  
Last Hour Service (Lifetime): 7232 (7232) on 12/7/2018  
Last Odometer Service (Lifetime): on

Problem Description: LH track motor hose half clamps left loose, blew oring.

**Labor Items:**

Work Code	Item Code	ST	OT	DT	
Reseal	12 - Transmission / Power Train:Hydrostatic Fittings / Lines		2.50	0.00	0.00

**Parts List:**

Part Num	Name	UOM	Qty Used	
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**Cost Ledger:**

Type	Ref Num	Description	Estimated Cost	
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**Reconciled Purchases:**

Part Num	Description	Invoice #	Ref #	Qty Used	
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# Maintenance Work Order

**Work Order:** 40545  
**Priority:** Normal  
**Due Date:**

**Notes:**

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3/27/2019 Mark E. McNaughton Replace blown o-ring on left track motor hoses

# Maintenance Work Order

**Work Order:** 39734  
**Priority:** Normal  
**Due Date:**

**Scheduling:**

**Status:** Closed  
**Status Date:** 2/5/2019

Mechanic Name	Schedule Date	Work Complete?
Eric P. Nichols	1/18/2019	<input checked="" type="checkbox"/>
Wade J. Smith	1/22/2019	<input checked="" type="checkbox"/>
Tanner C. Loomis	1/24/2019	<input checked="" type="checkbox"/>

Equipment ID: 22-026      Description: Cat 963D Track Loader  
Work Order Job: 18-S598      VIN #  
Current Job: 24-R137      Serial # LCS02190  
Current Location: 24-R137      License Plate #  
Equipment Foreman:      Make: Cat  
Work Order Foreman:      Model: 963D  
Carrier Name:

Meter Reading:      Hours: 7312      on 1/12/2019      by Jeff Lewis  
Odometer:      on      by  
Last Hour Service (Lifetime): 7232      (7232)      on 12/7/2018  
Last Odometer Service (Lifetime):      on

**Problem Description:** Repair inspection. Replace 3 carrier rollers. Replace all drive motor hoses. Update quick attach lines. Calibrate powertrain and hydraulic systems.

## Maintenance Work Order

**Work Order:** 39734  
**Priority:** Normal  
**Due Date:**

**Labor Items:**

Work Code	Item Code	ST	OT	DT	
Calibrate	12 - Transmission / Power Train:Calibration of Powertrain / Steering		0.50	0.00	0.00
Hardsurface	25 - Attachments:Buc ket		6.25	0.00	0.00
Inspect	10 - Inspection / Cleaning:Repair Inspection		9.50	0.00	0.00
Perform	14 - Hydraulic System:Calibratio n of Hydraulic System		1.00	0.00	0.00
Repair	25 - Attachments:Buc ket		0.50	0.00	0.00
Repair	25 - Attachments:Quic k Attach for Bucket / Attachment		2.25	0.00	0.00
Repair	27 - Cab / Body:Grill / Bug Screen		4.00	0.00	0.00
Replace	12 - Transmission / Power Train:Hydrostatic Fittings / Lines		6.00	0.00	0.00
Replace	14 - Hydraulic System:Quick Attach Cylinder, Hose, Valve, Wiring		5.00	0.00	0.00
Replace	17 - Undercarriage:Ca rrier Rollers		5.50	0.00	0.00

**Parts List:**

Part Num	Name	UOM	Qty Used	
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# Maintenance Work Order

**Work Order:** 39734  
**Priority:** Normal  
**Due Date:**

**Cost Ledger:**

Type	Ref Num	Description	Estimated Cost
Parts		Invoice #: PC501303678, Item Description: SEAL, Vendor Name: Ziegler, Inc.	\$0.00
Parts		Invoice #: PC501303085, Item Description: HOSE AS, Vendor Name: Ziegler, Inc.	\$0.00
Parts		Invoice #: PC501303473, Item Description: ROLLER GP-CA, Vendor Name: Ziegler, Inc.	\$0.00
Parts		Invoice #: PC501303866, Item Description: CAP AS, Vendor Name: Ziegler, Inc.	\$0.00

**Reconciled Purchases:**

Part Num	Description	Invoice #	Ref #	Qty Used
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**Notes:**

2/1/2019	Tanner C. Loomis	Installed all guards, belly pans, and floor mat. Performed hydraulic system calibrations.		
2/1/2019	Wade J. Smith	Found and repaired a crack in top bar that runs along the top of the bucket. Weld quick attach pin cylinder top mount bars. Put new weld on because old welds looked to be stretched.		
1/31/2019	Wade J. Smith	Take machine down to East lot and dump dirt out of bucket that was frozen in there the day before. Hardsurface bucket with DO 358. Straighten grill and hinge enough to get grill to open and shut smoothly. Latch and guide on grill was worn down to the point it'd get stuck, built up with weld, grind smooth and touch up paint.		
1/24/2019	Tanner C. Loomis	Install new quick attach lines and hoses with new o-rings. Replaced both carrier rollers on right side and front carrier roller on left side.		
1/23/2019	Wade J. Smith	Update quick attach cylinder lines. Remove bolt bosses, relocate new bosses. Touch up paint.		
1/21/2019	Eric P. Nichols	Removed belly pans. Inspected machine. Calibrated powertrain. Pulled machine out and cleaned area. Brought machine back in. Raised cab. Replaced all 4 drive motor hoses. Lowered cab.		

# Maintenance Work Order

**Work Order:** 39209  
**Priority:** Normal  
**Due Date:**

**Scheduling:**

**Status:** Closed  
**Status Date:** 12/18/2018

Mechanic Name	Schedule Date	Work Complete?
John J. Lauber	12/11/2018	<input checked="" type="checkbox"/>

Equipment ID: 22-026	Description: Cat 963D Track Loader
Work Order Job: 18-S593	VIN #
Current Job: 24-R137	Serial # LCS02190
Current Location: 24-R137	License Plate #
Equipment Foreman:	Make: Cat
Work Order Foreman:	Model: 963D
	Carrier Name:

Meter Reading: Hours: 7279 on 12/14/2018 by Trevor L. Williams  
 Odometer: on by  
 Last Hour Service (Lifetime): 7232 (7232) on 12/7/2018  
 Last Odometer Service (Lifetime): on

**Problem Description:** Replace teeth. Door lock on left cab door is not working. Add ELC Extender. Inspect air intake.

**Labor Items:**

Work Code	Item Code	ST	OT	DT	
Inspect	11 - Engine:Air Cleaner / Pre Cleaner		0.50	0.00	0.00
Parts Delivery or Pickup	23 - Cutting Edge / Teeth:Teeth, Pins and Retainers		0.50	0.00	0.00
Parts Delivery or Pickup	27 - Cab / Body:Door Latch / Lock		0.50	0.00	0.00
Replace	23 - Cutting Edge / Teeth:Teeth, Pins and Retainers		1.00	0.00	0.00
Replace	27 - Cab / Body:Door Latch / Lock		1.00	0.00	0.00

**Parts List:**

Part Num	Name	UOM	Qty Used	
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# Maintenance Work Order

**Work Order:** 39209  
**Priority:** Normal  
**Due Date:**

## Cost Ledger:

Type	Ref Num	Description	Estimated Cost
Parts		Invoice #: PC501297929, Item Description: Handle AS, Vendor Name: Ziegler, Inc.	\$0.00
Parts		Invoice #: PC501297342, Item Description: Retainer and Tip, Vendor Name: Ziegler, Inc.	\$0.00

## Reconciled Purchases:

Part Num	Description	Invoice #	Ref #	Qty Used
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## Notes:

12/14/2018	John J. Lauber	Replaced door pull/lock on left door.
12/13/2018	John J. Lauber	Replaced teeth and retainers on bucket. Inspected air intake, no issues found.
12/12/2018	John J. Lauber	Ordered and picked up teeth from Ziegler.

# Maintenance Work Order

**Work Order:** 39125  
**Priority:** Normal  
**Due Date:**

**Scheduling:**

**Status:** Closed  
**Status Date:** 12/11/2018

Mechanic Name	Schedule Date	Work Complete?
Christopher J. Murano	12/5/2018	<input checked="" type="checkbox"/>
Timothy M. Kirkman	12/5/2018	<input checked="" type="checkbox"/>

Equipment ID: 22-026	Description: Cat 963D Track Loader
Work Order Job: 18-S593	VIN #
Current Job: 24-R137	Serial # LCS02190
Current Location: 24-R137	License Plate #
Equipment Foreman:	Make: Cat
Work Order Foreman:	Model: 963D
	Carrier Name:

Meter Reading: Hours: 7232 on 12/7/2018 by Timothy M. Kirkman  
 Odometer: on by  
 Last Hour Service (Lifetime): 7232 (7232) on 12/7/2018  
 Last Odometer Service (Lifetime): on

Problem Description: PM1/250hr.

**Labor Items:**

Work Code	Item Code	ST	OT	DT	
Perform	26 - PM / Service:PM's Hours:PM1/250		9.00	0.00	0.00

**Parts List:**

Part Num	Name	UOM	Qty Used	
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**Cost Ledger:**

Type	Ref Num	Description	Estimated Cost	
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**Reconciled Purchases:**

Part Num	Description	Invoice #	Ref #	Qty Used	
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# Maintenance Work Order

**Work Order:** 39125  
**Priority:** Normal  
**Due Date:**

**Notes:**

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12/7/2018 Timothy M. Kirkman Left cab door lock spins and will not unlock now. Oil leak at fuel transfer pump behind the fuel filters.

# Maintenance Work Order

**Work Order:** 38564  
**Priority:** Normal  
**Due Date:**

**Scheduling:**

**Status:** Closed  
**Status Date:** 11/14/2018

Mechanic Name	Schedule Date	Work Complete?
Mark E. McNaughton	11/6/2018	<input checked="" type="checkbox"/>
Taylor J. Anderson	11/7/2018	<input checked="" type="checkbox"/>

Equipment ID: 22-026	Description: Cat 963D Track Loader
Work Order Job: 18-S565	VIN #
Current Job: 24-R137	Serial # LCS02190
Current Location: 24-R137	License Plate #
Equipment Foreman:	Make: Cat
Work Order Foreman:	Model: 963D
	Carrier Name:

Meter Reading: Hours: 7113 on 11/9/2018 by Trevor L. Williams  
 Odometer: on by  
 Last Hour Service (Lifetime): 7011 (7011) on 10/23/2018  
 Last Odometer Service (Lifetime): on

**Problem Description:** Starter is dragging, replace with reman.

**Labor Items:**

Work Code	Item Code	ST	OT	DT	
Replace	13 - Lighting / Charging / Starting System:Starting Motor		3.50	0.00	0.00

**Parts List:**

Part Num	Name	UOM	Qty Used	
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**Cost Ledger:**

Type	Ref Num	Description	Estimated Cost
Parts		Invoice #: PC501292171, Item Description: MOTOR G ELEC, CORE CHARGE, Vendor Name: Ziegler, Inc.	\$0.00
Parts		Invoice #: PR500126824, Item Description: CORE CREDIT, Vendor Name: Ziegler, Inc.	\$0.00
Parts		Invoice #: PR500126797, Item Description: MOTOR G ELEC, CORE CREDIT, Vendor Name: Ziegler, Inc.	\$0.00
Parts		Invoice #: PC501291918, Item Description: MOTOR G ELEC, CORE CHARGE, Vendor Name: Ziegler, Inc.	\$0.00

# Maintenance Work Order

**Work Order:** 38564  
**Priority:** Normal  
**Due Date:**

Reconciled Purchases:

Part Num	Description	Invoice #	Ref #	Qty Used	
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Notes:

11/8/2018	Taylor J. Anderson	11/8/18- Replaced starter with new reman. Started machine to verify no noise coming from starter anymore.			
11/7/2018	Taylor J. Anderson	11/7/18- Starter motor is bad. Picked parts up from Ziegler and went to machine, removed old started and took new starter out of box. New starter ordered was the incorrect one, ordered correct starter and tagged machine out so it cannot be ran.			

# Maintenance Work Order

**Work Order:** 37190  
**Priority:** Normal  
**Due Date:**

**Scheduling:**

**Status:** Closed  
**Status Date:** 10/31/2018

Mechanic Name	Schedule Date	Work Complete?
Wade J. Smith	9/5/2018	<input checked="" type="checkbox"/>

Equipment ID: 22-026	Description: Cat 963D Track Loader
Work Order Job: 17-S525	VIN #
Current Job: 24-R137	Serial # LCS02190
Current Location: 24-R137	License Plate #
Equipment Foreman:	Make: Cat
Work Order Foreman:	Model: 963D
	Carrier Name:

Meter Reading: Hours: 7057 on 10/30/2018 by Kraig L. Kuhse  
 Odometer: on by  
 Last Hour Service (Lifetime): 7011 (7011) on 10/23/2018  
 Last Odometer Service (Lifetime): on

**Problem Description:** Quick attach tab broke off.

**Labor Items:**

Work Code	Item Code	ST	OT	DT	
Repair	25 - Attachments:Quick Attach for Bucket / Attachment		3.00	0.00	0.00

**Parts List:**

Part Num	Name	UOM	Qty Used	
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**Cost Ledger:**

Type	Ref Num	Description	Estimated Cost	
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**Reconciled Purchases:**

Part Num	Description	Invoice #	Ref #	Qty Used	
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# Maintenance Work Order

**Work Order:** 37190  
**Priority:** Normal  
**Due Date:**

**Notes:**

- 10/26/2018 Wade J. Smith Fabricate quick attach alignment tabs. Brought machine into weld shop. Weld new tab in place of missing tab. Move machine to West lot.
- 9/6/2018 Wade J. Smith Fabricate quick attach tabs.

# Maintenance Work Order

**Work Order:** 38167  
**Priority:** Normal  
**Due Date:**

**Scheduling:**

**Status:** Closed  
**Status Date:** 10/30/2018

Mechanic Name	Schedule Date	Work Complete?
Christopher J. Murano	10/22/2018	<input checked="" type="checkbox"/>
Timothy M. Kirkman	10/22/2018	<input checked="" type="checkbox"/>

Equipment ID: 22-026	Description: Cat 963D Track Loader
Work Order Job: 17-S525	VIN #
Current Job: 24-R137	Serial # LCS02190
Current Location: 24-R137	License Plate #
Equipment Foreman:	Make: Cat
Work Order Foreman:	Model: 963D
	Carrier Name:

Meter Reading: Hours: 7011 on 10/23/2018 by Timothy M. Kirkman  
 Odometer: on by  
 Last Hour Service (Lifetime): 7011 (7011) on 10/23/2018  
 Last Odometer Service (Lifetime): on

Problem Description: PM2/500hr.

**Labor Items:**

Work Code	Item Code	ST	OT	DT	
Perform	26 - PM / Service:PM's Hours:PM2/500		5.00	0.00	0.00

**Parts List:**

Part Num	Name	UOM	Qty Used	
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**Cost Ledger:**

Type	Ref Num	Description	Estimated Cost	
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**Reconciled Purchases:**

Part Num	Description	Invoice #	Ref #	Qty Used	
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# Maintenance Work Order

**Work Order:** 38167  
**Priority:** Normal  
**Due Date:**

**Notes:**

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10/23/2018 Timothy M. Kirkman Power washed.

# Maintenance Work Order

**Work Order:** 37011  
**Priority:** Normal  
**Due Date:**

**Scheduling:**

**Status:** Closed  
**Status Date:** 9/4/2018

Mechanic Name	Schedule Date	Work Complete?
Christopher J. Murano	8/23/2018	<input checked="" type="checkbox"/>
Timothy M. Kirkman	8/23/2018	<input checked="" type="checkbox"/>

Equipment ID: 22-026	Description: Cat 963D Track Loader
Work Order Job: 17-S525	VIN #
Current Job: 24-R137	Serial # LCS02190
Current Location: 24-R137	License Plate #
Equipment Foreman:	Make: Cat
Work Order Foreman:	Model: 963D
	Carrier Name:

Meter Reading: Hours: 6808 on 8/29/2018 by Timothy M. Kirkman  
 Odometer: on by  
 Last Hour Service (Lifetime): 6808 (6808) on 8/29/2018  
 Last Odometer Service (Lifetime): on

Problem Description: PM1/250hr.

**Labor Items:**

Work Code	Item Code	ST	OT	DT	
Perform	26 - PM / Service:PM's Hours:PM1/250		6.00	0.00	0.00

**Parts List:**

Part Num	Name	UOM	Qty Used	
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**Cost Ledger:**

Type	Ref Num	Description	Estimated Cost	
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**Reconciled Purchases:**

Part Num	Description	Invoice #	Ref #	Qty Used	
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# Maintenance Work Order

**Work Order:** 37011  
**Priority:** Normal  
**Due Date:**

**Notes:**

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8/29/2018 Timothy M. Kirkman Power washed machine. Quick attach has one of the alignment tabs broken off.

# Maintenance Work Order

**Work Order:** 36998  
**Priority:** Normal  
**Due Date:**

**Scheduling:**

**Status:** Closed  
**Status Date:** 8/28/2018

Mechanic Name	Schedule Date	Work Complete?
Mark E. McNaughton	8/23/2018	<input checked="" type="checkbox"/>

Equipment ID: 22-026	Description: Cat 963D Track Loader
Work Order Job: 17-S525	VIN #
Current Job: 24-R137	Serial # LCS02190
Current Location: 24-R137	License Plate #
Equipment Foreman:	Make: Cat
Work Order Foreman:	Model: 963D
	Carrier Name:

Meter Reading: Hours: 6796 on 8/24/2018 by Jeff Lewis  
 Odometer: on by  
 Last Hour Service (Lifetime): 6598 (6598) on 7/3/2018  
 Last Odometer Service (Lifetime): on

**Problem Description:** Right cab door lock just spins.

**Labor Items:**

Work Code	Item Code	ST	OT	DT	
Repair	27 - Cab / Body:Grab Handle / Hand Rail		2.00	0.00	0.00
Replace	27 - Cab / Body:Door Latch / Lock		1.00	0.00	0.00

**Parts List:**

Part Num	Name	UOM	Qty Used	
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**Cost Ledger:**

Type	Ref Num	Description	Estimated Cost
Parts		Invoice #: PC501278192, Item Description: HANDLE AS, Vendor Name: Ziegler, Inc.	\$0.00

**Reconciled Purchases:**

Part Num	Description	Invoice #	Ref #	Qty Used
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# Maintenance Work Order

**Work Order:** 36998  
**Priority:** Normal  
**Due Date:**

**Notes:**

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8/23/2018 Mark E. McNaughton Replace right door handle and drill and tap broken bolts for grab handle on right side

# Maintenance Work Order

**Work Order:** 36889  
**Priority:** Normal  
**Due Date:**

**Scheduling:**

**Status:** Closed  
**Status Date:** 8/21/2018

Mechanic Name	Schedule Date	Work Complete?
Mark E. McNaughton	8/16/2018	<input checked="" type="checkbox"/>
John J. Lauber	8/20/2018	<input checked="" type="checkbox"/>

Equipment ID: 22-026	Description: Cat 963D Track Loader
Work Order Job: 17-S525	VIN #
Current Job: 24-R137	Serial # LCS02190
Current Location: 24-R137	License Plate #
Equipment Foreman:	Make: Cat
Work Order Foreman:	Model: 963D
	Carrier Name:

Meter Reading: Hours: 6769 on 8/16/2018 by Jeff Lewis  
 Odometer: on by  
 Last Hour Service (Lifetime): 6598 (6598) on 7/3/2018  
 Last Odometer Service (Lifetime): on

**Problem Description:** Track motor hose is leaking. Hyd hoses going to filter are rubbed together. Tracks are loose.

**Labor Items:**

Work Code	Item Code	ST	OT	DT	
Adjust	17 - Undercarriage:Steel Track		0.50	0.00	0.00
Replace	12 - Transmission / Power Train:Hydrostatic Fittings / Lines		11.50	0.00	0.00
Replace	14 - Hydraulic System:Hydraulic Fittings / Lines		3.00	0.00	0.00

**Parts List:**

Part Num	Name	UOM	Qty Used	
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**Cost Ledger:**

Type	Ref Num	Description	Estimated Cost
Parts		Invoice #: PC501277261, Item Description: hose as, Vendor Name: Ziegler, Inc.	\$0.00
Parts		Invoice #: PC501277265, Item Description: hose as, Vendor Name: Ziegler, Inc.	\$0.00

# Maintenance Work Order

**Work Order:** 36889  
**Priority:** Normal  
**Due Date:**

Reconciled Purchases:

Part Num	Description	Invoice #	Ref #	Qty Used	
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Notes:

8/20/2018	John J. Lauber	8/16/18 - Set tension on both tracks. Helped Mark try to replace drive motor hose.
8/17/2018	Mark E. McNaughton	Found track motor hose leaking and hydr. line going to filter starting to leak. Had a hard time get track motor hose to go back on found out that the end was bent so cat replaced it for free. Replace track motor hose on left track motor and replace two hydr. lines going to filters

# Maintenance Work Order

**Work Order:** 35916  
**Priority:** Normal  
**Due Date:**

**Scheduling:**

**Status:** Closed  
**Status Date:** 7/10/2018

Mechanic Name	Schedule Date	Work Complete?
Christopher J. Murano	7/2/2018	<input checked="" type="checkbox"/>
Timothy M. Kirkman	7/2/2018	<input checked="" type="checkbox"/>

Equipment ID: 22-026	Description: Cat 963D Track Loader
Work Order Job: 18-S545	VIN #
Current Job: 24-R137	Serial # LCS02190
Current Location: 24-R137	License Plate #
Equipment Foreman:	Make: Cat
Work Order Foreman:	Model: 963D
	Carrier Name:

Meter Reading: Hours: 6598 on 7/3/2018 by Timothy M. Kirkman  
 Odometer: on by  
 Last Hour Service (Lifetime): 6598 (6598) on 7/3/2018  
 Last Odometer Service (Lifetime): on

Problem Description: PM4/2000hr.

**Labor Items:**

Work Code	Item Code	ST	OT	DT	
Perform	26 - PM / Service:PM's Hours:PM4/2,000		10.00	0.00	0.00

**Parts List:**

Part Num	Name	UOM	Qty Used	
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**Cost Ledger:**

Type	Ref Num	Description	Estimated Cost	
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**Reconciled Purchases:**

Part Num	Description	Invoice #	Ref #	Qty Used	
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# Maintenance Work Order

**Work Order:** 35916  
**Priority:** Normal  
**Due Date:**

**Notes:**

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7/3/2018 Timothy M. Kirkman Right cab door will not lock. Power washed machine.

# Maintenance Work Order

**Work Order:** 35493  
**Priority:** Normal  
**Due Date:**

**Scheduling:**

**Status:** Closed  
**Status Date:** 6/12/2018

Mechanic Name	Schedule Date	Work Complete?
Mark E. McNaughton	6/5/2018	<input checked="" type="checkbox"/>

Equipment ID: 22-026	Description: Cat 963D Track Loader
Work Order Job: 18-S545	VIN #
Current Job: 24-R137	Serial # LCS02190
Current Location: 24-R137	License Plate #
Equipment Foreman:	Make: Cat
Work Order Foreman:	Model: 963D
	Carrier Name:

Meter Reading: Hours: 6511 on 6/11/2018 by Kraig L. Kuhse  
 Odometer: on by  
 Last Hour Service (Lifetime): 6384 (6384) on 5/18/2018  
 Last Odometer Service (Lifetime): on

Problem Description: A/C is not working again.

**Labor Items:**

Work Code	Item Code	ST	OT	DT	
Repair	28 - Air Conditioning / Heating System:Control, Cable, Switch, Relay, Wiring		3.50	0.00	0.00

**Parts List:**

Part Num	Name	UOM	Qty Used	
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**Cost Ledger:**

Type	Ref Num	Description	Estimated Cost	
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**Reconciled Purchases:**

Part Num	Description	Invoice #	Ref #	Qty Used	
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# Maintenance Work Order

**Work Order:** 35493  
**Priority:** Normal  
**Due Date:**

**Notes:**

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6/5/2018 Mark E. McNaughton Had no power to the clutch. Found bad wire on right side of cab inside by relay.

# Maintenance Work Order

**Work Order:** 35275  
**Priority:** Normal  
**Due Date:**

**Scheduling:**

**Status:** Closed  
**Status Date:** 5/29/2018

Mechanic Name	Schedule Date	Work Complete?
John J. Lauber	5/23/2018	<input checked="" type="checkbox"/>

Equipment ID: 22-026	Description: Cat 963D Track Loader
Work Order Job: 18-S545	VIN #
Current Job: 24-R137	Serial # LCS02190
Current Location: 24-R137	License Plate #
Equipment Foreman:	Make: Cat
Work Order Foreman:	Model: 963D
	Carrier Name:

Meter Reading: Hours: 6430 on 5/25/2018 by Kraig L. Kuhse  
 Odometer: on by  
 Last Hour Service (Lifetime): 6384 (6384) on 5/18/2018  
 Last Odometer Service (Lifetime): on

**Problem Description:** Left rear carrier roller seized up.

**Labor Items:**

Work Code	Item Code	ST	OT	DT	
Parts Delivery or Pickup	17 - Undercarriage:Carrier Rollers		1.00	0.00	0.00
Replace	17 - Undercarriage:Carrier Rollers		1.50	0.00	0.00

**Parts List:**

Part Num	Name	UOM	Qty Used	
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**Cost Ledger:**

Type	Ref Num	Description	Estimated Cost
Parts		Invoice #: PC501263256, Item Description: Roller, Vendor Name: Ziegler, Inc.	\$0.00

**Reconciled Purchases:**

Part Num	Description	Invoice #	Ref #	Qty Used
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# Maintenance Work Order

**Work Order:** 35275  
**Priority:** Normal  
**Due Date:**

**Notes:**

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5/24/2018 John J. Lauber Replaced left rear carrier roller.  
5/23/2018 John J. Lauber Ordered new carrier roller and picked up from Ziegler.

# Maintenance Work Order

**Work Order:** 35173  
**Priority:** Normal  
**Due Date:**

**Scheduling:**

**Status:** Closed  
**Status Date:** 5/22/2018

Mechanic Name	Schedule Date	Work Complete?
Christopher J. Murano	5/17/2018	<input checked="" type="checkbox"/>
Timothy M. Kirkman	5/17/2018	<input checked="" type="checkbox"/>

Equipment ID: 22-026	Description: Cat 963D Track Loader
Work Order Job: 18-S545	VIN #
Current Job: 24-R137	Serial # LCS02190
Current Location: 24-R137	License Plate #
Equipment Foreman:	Make: Cat
Work Order Foreman:	Model: 963D
	Carrier Name:

Meter Reading: Hours: 6384 on 5/18/2018 by Timothy M. Kirkman  
 Odometer: on by  
 Last Hour Service (Lifetime): 6384 (6384) on 5/18/2018  
 Last Odometer Service (Lifetime): on

Problem Description: PM1/250hr.

**Labor Items:**

Work Code	Item Code	ST	OT	DT	
Perform	26 - PM / Service:PM's Hours:PM1/250		4.00	0.00	0.00

**Parts List:**

Part Num	Name	UOM	Qty Used	
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**Cost Ledger:**

Type	Ref Num	Description	Estimated Cost	
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**Reconciled Purchases:**

Part Num	Description	Invoice #	Ref #	Qty Used	
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# Maintenance Work Order

**Work Order:** 35173  
**Priority:** Normal  
**Due Date:**

**Notes:**

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5/18/2018 Timothy M. Kirkman Power washed machine and adjusted tracks.

# Maintenance Work Order

**Work Order:** 34865  
**Priority:** Normal  
**Due Date:**

**Scheduling:**

**Status:** Closed  
**Status Date:** 5/1/2018

Mechanic Name	Schedule Date	Work Complete?
Mark E. McNaughton	4/30/2018	<input checked="" type="checkbox"/>

Equipment ID: 22-026 Description: Cat 963D Track Loader  
Work Order Job: 18-S545 VIN #  
Current Job: 24-R137 Serial # LCS02190  
Current Location: 24-R137 License Plate #  
Equipment Foreman: Make: Cat  
Work Order Foreman: Model: 963D  
Carrier Name:

Meter Reading: Hours: 6264 on 4/28/2018 by Kraig L. Kuhse  
Odometer: on by  
Last Hour Service (Lifetime): 6158 (6158) on 4/12/2018  
Last Odometer Service (Lifetime): on

Problem Description: A/C is not working, low charge.

**Labor Items:**

Work Code	Item Code	ST	OT	DT	
Recharge	28 - Air Conditioning / Heating System		3.50	0.00	0.00

**Parts List:**

Part Num	Name	UOM	Qty Used	
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**Cost Ledger:**

Type	Ref Num	Description	Estimated Cost	
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**Reconciled Purchases:**

Part Num	Description	Invoice #	Ref #	Qty Used	
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**Notes:**

4/30/2018 Mark E. McNaughton Hook up gauges and recharge ac system could not find any leaks

# Maintenance Work Order

**Work Order:** 34584  
**Priority:** Normal  
**Due Date:**

**Scheduling:**

**Status:** Closed  
**Status Date:** 4/16/2018

Mechanic Name	Schedule Date	Work Complete?
Christopher J. Murano	4/11/2018	<input checked="" type="checkbox"/>
Timothy M. Kirkman	4/11/2018	<input checked="" type="checkbox"/>

Equipment ID: 22-026	Description: Cat 963D Track Loader
Work Order Job: 18-S545	VIN #
Current Job: 24-R137	Serial # LCS02190
Current Location: 24-R137	License Plate #
Equipment Foreman:	Make: Cat
Work Order Foreman:	Model: 963D
	Carrier Name:

Meter Reading: Hours: 6158 on 4/12/2018 by Timothy M. Kirkman  
 Odometer: on by  
 Last Hour Service (Lifetime): 6158 (6158) on 4/12/2018  
 Last Odometer Service (Lifetime): on

Problem Description: PM2/500hr.

**Labor Items:**

Work Code	Item Code	ST	OT	DT	
Perform	26 - PM / Service:PM's Hours:PM2/500		6.00	0.00	0.00

**Parts List:**

Part Num	Name	UOM	Qty Used	
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**Cost Ledger:**

Type	Ref Num	Description	Estimated Cost	
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**Reconciled Purchases:**

Part Num	Description	Invoice #	Ref #	Qty Used	
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# Maintenance Work Order

**Work Order:** 34584  
**Priority:** Normal  
**Due Date:**

Notes:

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# Maintenance Work Order

**Work Order:** 33920  
**Priority:** Normal  
**Due Date:**

**Scheduling:**

**Status:** Closed  
**Status Date:** 3/9/2018

Mechanic Name	Schedule Date	Work Complete?
Kyle J. King	2/8/2018	<input checked="" type="checkbox"/>
Mark E. McNaughton	2/9/2018	<input checked="" type="checkbox"/>
Wade J. Smith	2/12/2018	<input checked="" type="checkbox"/>
Kraig L. Kuhse	2/12/2018	<input checked="" type="checkbox"/>
Eric P. Nichols	3/7/2018	<input checked="" type="checkbox"/>

Equipment ID: 22-026 Description: Cat 963D Track Loader  
Work Order Job: 17-S532 VIN #  
Current Job: 24-R137 Serial # LCS02190  
Current Location: 24-R137 License Plate #  
Equipment Foreman: Make: Cat  
Work Order Foreman: Model: 963D  
Carrier Name:

Meter Reading: Hours: 5959 on 1/29/2018 by Kraig L. Kuhse  
Odometer: on by  
Last Hour Service (Lifetime): 5938 (5938) on 12/6/2017  
Last Odometer Service (Lifetime): on

**Problem Description:** Repair inspection. Replace test port line. Replace screws in fuse panel lid. Replace quick tach linesL LF bottom roller leaking, warranty part. Hitch pin missing. Bucket needs hard surface and new side tooth adaptors. Reseal both pivot shafts. Replace bad door latch. Send to Ziegler for main frame crack repair. Calibrate powertrain.

## Maintenance Work Order

**Work Order:** 33920  
**Priority:** Normal  
**Due Date:**

**Labor Items:**

Work Code	Item Code	ST	OT	DT	
Calibrate	12 - Transmission / Power Train:Calibration of Powertrain / Steering		2.00	0.00	0.00
Hardsurface	25 - Attachments:Bucket		3.50	0.00	0.00
Inspect	10 - Inspection / Cleaning:Repair Inspection		12.00	0.00	0.00
Parts Delivery or Pickup	16 - Chassis / Suspension:Equalizer Bar / Hard Bar		1.00	0.00	0.00
Repair	16 - Chassis / Suspension:Equalizer Bar / Hard Bar		10.00	0.00	0.00
Repair	27 - Cab / Body:Console / Dash		0.50	0.00	0.00
Replace	12 - Transmission / Power Train:Power Train Fitting / Lines		1.00	0.00	0.00
Replace	14 - Hydraulic System:Quick Attach Cylinder, Hose, Valve, Wiring		1.50	0.00	0.00
Replace	23 - Cutting Edge / Teeth:Tooth Adapter		1.75	0.00	0.00
Replace	27 - Cab / Body:Door Latch / Lock		0.50	0.00	0.00
Reseal	16 - Chassis / Suspension:Pivot Shafts		33.25	0.00	0.00

**Parts List:**

Part Num	Name	UOM	Qty Used	
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## Maintenance Work Order

**Work Order:** 33920  
**Priority:** Normal  
**Due Date:**

Cost Ledger:

Type	Ref Num	Description	Estimated Cost
Parts		Invoice #: pc501245174, Item Description: Housing As, Vendor Name: Ziegler, Inc.	\$0.00
Parts		Invoice #: pc501244062, Item Description: Draw Pin, Vendor Name: Ziegler, Inc.	\$0.00
Parts		Invoice #: pc501244872, Item Description: Breather, Vendor Name: Ziegler, Inc.	\$0.00
Parts		Invoice #: pr500122400, Item Description: Bolt Track, Vendor Name: Ziegler, Inc.	\$0.00
Parts		Invoice #: pc501245179, Item Description: Hose Assem, Vendor Name: Ziegler, Inc.	\$0.00
Parts		Invoice #: pc501244063, Item Description: Locknut, Bolt, Bolt Plow, Vendor Name: Ziegler, Inc.	\$0.00
Parts		Invoice #: pc501245181, Item Description: Couplings,L/M HoseIn, CM Guard, Vendor Name: Ziegler, Inc.	\$0.00
Parts		Invoice #: pc501246987, Item Description: Baffle, Vendor Name: Ziegler, Inc.	\$0.00
Parts		Invoice #: pc501244380, Item Description: Adptr RH & LH, Vendor Name: Ziegler, Inc.	\$0.00
Parts		Invoice #: pc501244869, Item Description: Nut, Bolt Tracks, Vendor Name: Ziegler, Inc.	\$0.00
Parts		Invoice #: pc501244870, Item Description: Bolt,Nut,Spacer, Vendor Name: Ziegler, Inc.	\$0.00
Parts		Invoice #: pr500122516, Item Description: P{in A Drawbar, Vendor Name: Ziegler, Inc.	\$0.00
Parts		Invoice #: SW500195917, Item Description: Remove/Install Hydraulic Tank, Vendor Name: Ziegler, Inc.	\$0.00
Parts		Invoice #: pc501244061, Item Description: Screw - Truss, Nut, Vendor Name: Ziegler, Inc.	\$0.00
Parts		Invoice #: pc501246229, Item Description: Baffle, Vendor Name: Ziegler, Inc.	\$0.00
Parts		Invoice #: sw500194456, Item Description: Repair Track Roller, Vendor Name: Ziegler, Inc.	\$0.00
Parts		Invoice #: pc501245172, Item Description: Latch As, Vendor Name: Ziegler, Inc.	\$0.00
Parts		Invoice #: pc501244379, Item Description: Seals, Seal O Ring, Vendor Name: Ziegler, Inc.	\$0.00

# Maintenance Work Order

**Work Order:** 33920  
**Priority:** Normal  
**Due Date:**

Cost Ledger:

Type	Ref Num	Description	Estimated Cost
Parts		Invoice #: pc501244382, Item Description: Bearing Sleeve, Vendor Name: Ziegler, Inc.	\$0.00
Parts		Invoice #: PR500123671, Item Description: Baffler, Vendor Name: Ziegler, Inc.	\$0.00
Parts		Invoice #: pc501245389, Item Description: Blocks, Housing As, Vendor Name: Ziegler, Inc.	\$0.00
Parts		Invoice #: pc501244383, Item Description: Tap, Vendor Name: Ziegler, Inc.	\$0.00
Parts		Invoice #: pc501244868, Item Description: Plates, Vendor Name: Ziegler, Inc.	\$0.00

Reconciled Purchases:

Part Num	Description	Invoice #	Ref #	Qty Used
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## Maintenance Work Order

**Work Order:** 33920  
**Priority:** Normal  
**Due Date:**

### Notes:

3/7/2018	Eric P. Nichols	Installed rubber baffle over hyd tank. Calibrated powertrain.
2/22/2018	Kyle J. King	Waited for unit to get done in wash bay. Installed belly pans and sheet metal. Ordered parts. Need to calibrate.
2/22/2018	Mark E. McNaughton	Help put back together.
2/21/2018	Kyle J. King	Put right side back together. Installed left track frame and put back together.
2/20/2018	Kyle J. King	Cleaned off pads and installed hard bar. Recleaned roller frame and installed roller frame with new pivot seals and ring.
2/16/2018	Kyle J. King	Replaced quick coupler hoses. Replaced bad latch. Replace seals in equalizer bar.
2/16/2018	Kyle J. King	Clean and replace seals in hardbar.
2/15/2018	Wade J. Smith	Adjust track frame pin puller spacer for Kyle.
2/15/2018	Kyle J. King	2/14/2018 Got pin pulled on left track frame and dropped frame. Replaced both inner bearings. Dropped hardbar.
2/14/2018	Wade J. Smith	Replaced outside tooth adapters. Hardsurfaced bottom sides.
2/12/2018	Kyle J. King	Repaired fuse panel. Replaced missing test port line. Took bucket and dumped dirt and give bucket to Wade. Dropped weights, and tracks and pulled roller frame on right. Started left side, could not get pin out. Threads in pin were dirty. Got tap at Ziegler.
2/12/2018	Wade J. Smith	Hardsurface bucket. Order new tooth adapters for each end. Both worn very thin on bottom sides.
2/9/2018	Kyle J. King	Finished dropping belly pans and inspecting unit.
2/9/2018	Mark E. McNaughton	Dissemble ft,end so Wade could see the cracks .
2/8/2018	Kyle J. King	Started inspection.

# Maintenance Work Order

**Work Order:** 33270  
**Priority:** Normal  
**Due Date:**

**Scheduling:**

**Status:** Closed  
**Status Date:** 12/12/2017

Mechanic Name	Schedule Date	Work Complete?
Christopher J. Murano	12/1/2017	<input checked="" type="checkbox"/>
Timothy M. Kirkman	12/1/2017	<input checked="" type="checkbox"/>

Equipment ID: 22-026	Description: Cat 963D Track Loader
Work Order Job: 17-S532	VIN #
Current Job: 24-R137	Serial # LCS02190
Current Location: 24-R137	License Plate #
Equipment Foreman:	Make: Cat
Work Order Foreman:	Model: 963D
	Carrier Name:

Meter Reading: Hours: 5938 on 12/6/2017 by Timothy M. Kirkman  
 Odometer: on by  
 Last Hour Service (Lifetime): 5938 (5938) on 12/6/2017  
 Last Odometer Service (Lifetime): on

Problem Description: PM1/250hr.

**Labor Items:**

Work Code	Item Code	ST	OT	DT	
Perform	26 - PM / Service:PM's Hours:PM1/250		5.00	0.00	0.00

**Parts List:**

Part Num	Name	UOM	Qty Used	
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**Cost Ledger:**

Type	Ref Num	Description	Estimated Cost	
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**Reconciled Purchases:**

Part Num	Description	Invoice #	Ref #	Qty Used	
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# Maintenance Work Order

**Work Order:** 33270  
**Priority:** Normal  
**Due Date:**

Notes:

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# Maintenance Work Order

**Work Order:** 32963  
**Priority:** Normal  
**Due Date:**

**Scheduling:**

**Status:** Closed  
**Status Date:** 11/21/2017

Mechanic Name	Schedule Date	Work Complete?
Eric P. Nichols	11/14/2017	<input checked="" type="checkbox"/>

Equipment ID: 22-026	Description: Cat 963D Track Loader
Work Order Job: 17-S509	VIN #
Current Job: 24-R137	Serial # LCS02190
Current Location: 24-R137	License Plate #
Equipment Foreman:	Make: Cat
Work Order Foreman:	Model: 963D
	Carrier Name:

Meter Reading: Hours: 5903 on 11/20/2017 by Kraig L. Kuhse  
 Odometer: on by  
 Last Hour Service (Lifetime): 5715 (5715) on 10/10/2017  
 Last Odometer Service (Lifetime): on

**Problem Description:** Exhaust manifold cracked.

**Labor Items:**

Work Code	Item Code	ST	OT	DT	
Inspect	11 - Engine:Exhaust Manifold		0.50	0.00	0.00
Parts Delivery or Pickup	11 - Engine:Exhaust Manifold		1.00	0.00	0.00
Replace	11 - Engine:Exhaust Manifold		3.00	0.00	0.00

**Parts List:**

Part Num	Name	UOM	Qty Used	
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**Cost Ledger:**

Type	Ref Num	Description	Estimated Cost
Parts		Invoice #: pc501229518, Item Description: Spacer,Manifold,Gskt,Stud,Wshr, Vendor Name: Ziegler, Inc.	\$0.00

**Reconciled Purchases:**

Part Num	Description	Invoice #	Ref #	Qty Used	
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# Maintenance Work Order

**Work Order:** 32963  
**Priority:** Normal  
**Due Date:**

Notes:

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11/15/2017 Eric P. Nichols Picked up parts from Ziegler. Replaced exhaust manifold.

# Maintenance Work Order

**Work Order:** 32323  
**Priority:** Normal  
**Due Date:**

**Scheduling:**

**Status:** Closed  
**Status Date:** 10/17/2017

Mechanic Name	Schedule Date	Work Complete?
Kyle J. King	10/13/2017	<input checked="" type="checkbox"/>

Equipment ID: 22-026	Description: Cat 963D Track Loader
Work Order Job: 16-S458	VIN #
Current Job: 24-R137	Serial # LCS02190
Current Location: 24-R137	License Plate #
Equipment Foreman:	Make: Cat
Work Order Foreman:	Model: 963D
	Carrier Name:

Meter Reading: Hours: 5747 on 10/14/2017 by Trevor L. Williams  
 Odometer: on by  
 Last Hour Service (Lifetime): 5715 (5715) on 10/10/2017  
 Last Odometer Service (Lifetime): on

**Problem Description:** Check out possible oil leak on LR of engine.

**Labor Items:**

Work Code	Item Code	ST	OT	DT
Inspect	11 - Engine		1.25	0.00

**Parts List:**

Part Num	Name	UOM	Qty Used
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**Cost Ledger:**

Type	Ref Num	Description	Estimated Cost
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**Reconciled Purchases:**

Part Num	Description	Invoice #	Ref #	Qty Used
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**Notes:**

10/13/2017 Kyle J. King Determined that oil was from service. Filter was probably spilled and not cleaned up.

# Maintenance Work Order

**Work Order:** 32099  
**Priority:** Normal  
**Due Date:**

**Scheduling:**

**Status:** Closed  
**Status Date:** 10/17/2017

Mechanic Name	Schedule Date	Work Complete?
Christopher J. Murano	10/3/2017	<input checked="" type="checkbox"/>
Timothy M. Kirkman	10/3/2017	<input checked="" type="checkbox"/>

Equipment ID: 22-026	Description: Cat 963D Track Loader
Work Order Job: 16-S458	VIN #
Current Job: 24-R137	Serial # LCS02190
Current Location: 24-R137	License Plate #
Equipment Foreman:	Make: Cat
Work Order Foreman:	Model: 963D
	Carrier Name:

Meter Reading: Hours: 5715 on 10/10/2017 by Timothy M. Kirkman  
 Odometer: on by  
 Last Hour Service (Lifetime): 5715 (5715) on 10/10/2017  
 Last Odometer Service (Lifetime): on

Problem Description: PM3/1000hr.

**Labor Items:**

Work Code	Item Code	ST	OT	DT	
Perform	26 - PM / Service:PM's Hours:PM3/1,000		8.00	0.00	0.00

**Parts List:**

Part Num	Name	UOM	Qty Used	
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**Cost Ledger:**

Type	Ref Num	Description	Estimated Cost	
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**Reconciled Purchases:**

Part Num	Description	Invoice #	Ref #	Qty Used	
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# Maintenance Work Order

**Work Order:** 32099  
**Priority:** Normal  
**Due Date:**

**Notes:**

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10/10/2017 Timothy M. Kirkman Adjusted tracks and power washed machine.

# Maintenance Work Order

**Work Order:** 32021  
**Priority:** Normal  
**Due Date:**

**Scheduling:**

**Status:** Closed  
**Status Date:** 10/2/2017

Mechanic Name	Schedule Date	Work Complete?
Kyle J. King	9/28/2017	<input checked="" type="checkbox"/>

Equipment ID: 22-026	Description: Cat 963D Track Loader
Work Order Job: 17-S487	VIN #
Current Job: 24-R137	Serial # LCS02190
Current Location: 24-R137	License Plate #
Equipment Foreman:	Make: Cat
Work Order Foreman:	Model: 963D
	Carrier Name:

Meter Reading: Hours: 5671 on 9/30/2017 by Trevor L. Williams  
 Odometer: on by  
 Last Hour Service (Lifetime): 5425 (5425) on 8/24/2017  
 Last Odometer Service (Lifetime): on

**Problem Description:** Inside cab filter ripped when operator was beating dirt out.

**Labor Items:**

Work Code	Item Code	ST	OT	DT	
Parts Delivery or Pickup	28 - Air Conditioning / Heating System:Cab Air Filter		0.50	0.00	0.00
Replace	28 - Air Conditioning / Heating System:Cab Air Filter		0.25	0.00	0.00

**Parts List:**

Part Num	Name	UOM	Qty Used	
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**Cost Ledger:**

Type	Ref Num	Description	Estimated Cost	
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**Reconciled Purchases:**

Part Num	Description	Invoice #	Ref #	Qty Used	
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# Maintenance Work Order

**Work Order:** 32021  
**Priority:** Normal  
**Due Date:**

Notes:

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9/28/2017      Kyle J. King      Picked up filter at shop and replaced. Outer looks new.

# Maintenance Work Order

**Work Order:** 31874  
**Priority:** Normal  
**Due Date:**

**Scheduling:**

**Status:** Closed  
**Status Date:** 9/26/2017

Mechanic Name	Schedule Date	Work Complete?
John J. Lauber	9/21/2017	<input checked="" type="checkbox"/>

Equipment ID: 22-026	Description: Cat 963D Track Loader
Work Order Job: 16-S458	VIN #
Current Job: 24-R137	Serial # LCS02190
Current Location: 24-R137	License Plate #
Equipment Foreman:	Make: Cat
Work Order Foreman:	Model: 963D
	Carrier Name:

Meter Reading: Hours: 5642 on 9/25/2017 by Trevor L. Williams  
 Odometer: on by  
 Last Hour Service (Lifetime): 5425 (5425) on 8/24/2017  
 Last Odometer Service (Lifetime): on

**Problem Description:** Bucket teeth are worn through. Code coming up for plugged fuel filters.

**Labor Items:**

Work Code	Item Code	ST	OT	DT	
Diagnose	23 - Cutting Edge / Teeth:Teeth, Pins and Retainers		1.00	0.00	0.00
Replace	15 - Fuel System:Fuel Filter		1.00	0.00	0.00
Replace	23 - Cutting Edge / Teeth:Teeth, Pins and Retainers		1.00	0.00	0.00

**Parts List:**

Part Num	Name	UOM	Qty Used	
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**Cost Ledger:**

Type	Ref Num	Description	Estimated Cost
Parts		Invoice #: pc501219397, Item Description: General Tip,Get Retainer, Vendor Name: Ziegler, Inc.	\$0.00
Parts		Invoice #: pc501219411, Item Description: Filter As, Vendor Name: Ziegler, Inc.	\$0.00
Parts		Invoice #: pc501219397, Item Description: General Tip,Get Retainer, Vendor Name: Ziegler, Inc.	\$0.00
Parts		Invoice #: pc501219411, Item Description: Filter As, Vendor Name: Ziegler, Inc.	\$0.00

# Maintenance Work Order

**Work Order:** 31874  
**Priority:** Normal  
**Due Date:**

Reconciled Purchases:

Part Num	Description	Invoice #	Ref #	Qty Used	
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Notes:

9/24/2017	John J. Lauber	Replaced all fuel filters. Primed and ran machine.			
9/24/2017	John J. Lauber	Replaced teeth and retainers.			
9/24/2017	John J. Lauber	Teeth are worn out. Ordered new teeth and retainers from Ziegler.			

# Maintenance Work Order

**Work Order:** 31540  
**Priority:** Normal  
**Due Date:**

**Scheduling:**

**Status:** Closed  
**Status Date:** 9/12/2017

Mechanic Name	Schedule Date	Work Complete?
Kyle J. King	9/7/2017	<input checked="" type="checkbox"/>

Equipment ID: 22-026	Description: Cat 963D Track Loader
Work Order Job: 16-S458	VIN #
Current Job: 24-R137	Serial # LCS02190
Current Location: 24-R137	License Plate #
Equipment Foreman:	Make: Cat
Work Order Foreman:	Model: 963D
	Carrier Name:

Meter Reading: Hours: 5518 on 9/9/2017 by Trevor L. Williams  
 Odometer: on by  
 Last Hour Service (Lifetime): 5425 (5425) on 8/24/2017  
 Last Odometer Service (Lifetime): on

**Problem Description:** Low voltage warning during start up. Replace batteries.

**Labor Items:**

Work Code	Item Code	ST	OT	DT	
Diagnose	13 - Lighting / Charging / Starting System:Batteries		1.00	0.00	0.00
Parts Delivery or Pickup	13 - Lighting / Charging / Starting System:Batteries		1.00	0.00	0.00
Replace	13 - Lighting / Charging / Starting System:Batteries		1.50	0.00	0.00

**Parts List:**

Part Num	Name	UOM	Qty Used	
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**Cost Ledger:**

Type	Ref Num	Description	Estimated Cost
Parts		Invoice #: pc501216297, Item Description: Battery, Vendor Name: Ziegler, Inc.	\$0.00
Parts		Invoice #: pc501216297, Item Description: Battery, Vendor Name: Ziegler, Inc.	\$0.00

**Reconciled Purchases:**

Part Num	Description	Invoice #	Ref #	Qty Used	
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# Maintenance Work Order

**Work Order:** 31540  
**Priority:** Normal  
**Due Date:**

**Notes:**

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9/7/2017      Kyle J. King      Batteries weak. Ordered and picked up. Replaced batteries.

# Maintenance Work Order

**Work Order:** 31232  
**Priority:** Normal  
**Due Date:**

**Scheduling:**

**Status:** Closed  
**Status Date:** 8/26/2017

Mechanic Name	Schedule Date	Work Complete?
Christopher J. Murano	8/19/2017	<input checked="" type="checkbox"/>
Timothy M. Kirkman	8/19/2017	<input checked="" type="checkbox"/>

Equipment ID: 22-026	Description: Cat 963D Track Loader
Work Order Job: 17-M245	VIN #
Current Job: 24-R137	Serial # LCS02190
Current Location: 24-R137	License Plate #
Equipment Foreman:	Make: Cat
Work Order Foreman:	Model: 963D
	Carrier Name:

Meter Reading: Hours: 5425 on 8/24/2017 by Christopher J. Murano

Odometer: on by  
 Last Hour Service (Lifetime): 5425 (5425) on 8/24/2017  
 Last Odometer Service (Lifetime): on

Problem Description: PM1/250hr.

**Labor Items:**

Work Code	Item Code	ST	OT	DT	
Perform	26 - PM / Service:PM's Hours:PM1/250		6.00	0.00	0.00

**Parts List:**

Part Num	Name	UOM	Qty Used	
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**Cost Ledger:**

Type	Ref Num	Description	Estimated Cost	
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**Reconciled Purchases:**

Part Num	Description	Invoice #	Ref #	Qty Used	
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# Maintenance Work Order

**Work Order:** 31232  
**Priority:** Normal  
**Due Date:**

Notes:

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# Maintenance Work Order

**Work Order:** 30272  
**Priority:** Normal  
**Due Date:**

**Scheduling:**

**Status:** Closed  
**Status Date:** 7/11/2017

Mechanic Name	Schedule Date	Work Complete?
Christopher J. Murano	7/1/2017	<input checked="" type="checkbox"/>
Timothy M. Kirkman	7/1/2017	<input checked="" type="checkbox"/>

Equipment ID: 22-026	Description: Cat 963D Track Loader
Work Order Job: 17-S487	VIN #
Current Job: 24-R137	Serial # LCS02190
Current Location: 24-R137	License Plate #
Equipment Foreman:	Make: Cat
Work Order Foreman:	Model: 963D
	Carrier Name:

Meter Reading: Hours: 5158 on 7/6/2017 by Timothy M. Kirkman  
 Odometer: on by  
 Last Hour Service (Lifetime): 5158 (5158) on 7/6/2017  
 Last Odometer Service (Lifetime): on

Problem Description: PM2/500hr.

**Labor Items:**

Work Code	Item Code	ST	OT	DT	
Perform	26 - PM / Service:PM's Hours:PM2/500		7.00	0.00	0.00

**Parts List:**

Part Num	Name	UOM	Qty Used	
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**Cost Ledger:**

Type	Ref Num	Description	Estimated Cost	
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**Reconciled Purchases:**

Part Num	Description	Invoice #	Ref #	Qty Used	
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# Maintenance Work Order

**Work Order:** 30272  
**Priority:** Normal  
**Due Date:**

**Notes:**

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7/6/2017 Timothy M. Kirkman Power washed machine. Adjusted both tracks.

# Maintenance Work Order

**Work Order:** 30065  
**Priority:** Normal  
**Due Date:**

**Scheduling:**

**Status:** Closed  
**Status Date:** 6/26/2017

Mechanic Name	Schedule Date	Work Complete?
Eric P. Nichols	6/20/2017	<input checked="" type="checkbox"/>

Equipment ID: 22-026	Description: Cat 963D Track Loader
Work Order Job: 17-S487	VIN #
Current Job: 24-R137	Serial # LCS02190
Current Location: 24-R137	License Plate #
Equipment Foreman:	Make: Cat
Work Order Foreman:	Model: 963D
	Carrier Name:

Meter Reading: Hours: 5095 on 6/26/2017 by Trevor L. Williams  
 Odometer: on by  
 Last Hour Service (Lifetime): 4905 (4905) on 5/31/2017  
 Last Odometer Service (Lifetime): on

**Problem Description:** Bolts in belly pans, radiator mount bolts.

**Labor Items:**

Work Code	Item Code	ST	OT	DT	
Repair	19 - Cooling System:Radiator		2.50	0.00	0.00

**Parts List:**

Part Num	Name	UOM	Qty Used	
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**Cost Ledger:**

Type	Ref Num	Description	Estimated Cost	
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**Reconciled Purchases:**

Part Num	Description	Invoice #	Ref #	Qty Used	
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**Notes:**

6/21/2017 Eric P. Nichols Lower right mount bolt was missing. Drop belly pan, found another bolt from the upper left. Bolts also missing from lower left mounting plate. Removed side panels, installed bolts. Installed side panels.

# Maintenance Work Order

**Work Order:** 29818  
**Priority:** Normal  
**Due Date:**

**Scheduling:**

**Status:** Closed  
**Status Date:** 6/12/2017

Mechanic Name	Schedule Date	Work Complete?
Kyle J. King	6/8/2017	<input checked="" type="checkbox"/>

Equipment ID: 22-026	Description: Cat 963D Track Loader
Work Order Job: 17-S487	VIN #
Current Job: 24-R137	Serial # LCS02190
Current Location: 24-R137	License Plate #
Equipment Foreman:	Make: Cat
Work Order Foreman:	Model: 963D
	Carrier Name:

Meter Reading: Hours: 4983 on 6/10/2017 by Kraig L. Kuhse  
 Odometer: on by  
 Last Hour Service (Lifetime): 4905 (4905) on 5/31/2017  
 Last Odometer Service (Lifetime): on

**Problem Description:** Bolts for the track adjuster covers are frozen.

**Labor Items:**

Work Code	Item Code	ST	OT	DT	
Repair	17 - Undercarriage:Track Adjustment		1.00	0.00	0.00

**Parts List:**

Part Num	Name	UOM	Qty Used	
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**Cost Ledger:**

Type	Ref Num	Description	Estimated Cost	
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**Reconciled Purchases:**

Part Num	Description	Invoice #	Ref #	Qty Used	
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**Notes:**

6/8/2017 Kyle J. King Was able to remove all bolts and clean out holes. Put covers back on with anti-seize on bolts.

# Maintenance Work Order

**Work Order:** 29554  
**Priority:** Normal  
**Due Date:**

**Scheduling:**

**Status:** Closed  
**Status Date:** 6/6/2017

Mechanic Name	Schedule Date	Work Complete?
Christopher J. Murano	5/27/2017	<input checked="" type="checkbox"/>
Timothy M. Kirkman	5/27/2017	<input checked="" type="checkbox"/>

Equipment ID: 22-026	Description: Cat 963D Track Loader
Work Order Job: 17-S487	VIN #
Current Job: 24-R137	Serial # LCS02190
Current Location: 24-R137	License Plate #
Equipment Foreman:	Make: Cat
Work Order Foreman:	Model: 963D
	Carrier Name:

Meter Reading: Hours: 4905 on 5/31/2017 by Christopher J. Murano

Odometer: on by  
 Last Hour Service (Lifetime): 4905 (4905) on 5/31/2017  
 Last Odometer Service (Lifetime): on

Problem Description: PM1/250hr.

**Labor Items:**

Work Code	Item Code	ST	OT	DT	
Perform	26 - PM / Service:PM's Hours:PM1/250		6.00	0.00	0.00

**Parts List:**

Part Num	Name	UOM	Qty Used	
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**Cost Ledger:**

Type	Ref Num	Description	Estimated Cost	
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**Reconciled Purchases:**

Part Num	Description	Invoice #	Ref #	Qty Used	
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# Maintenance Work Order

**Work Order:** 29554  
**Priority:** Normal  
**Due Date:**

**Notes:**

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5/31/2017 Christopher J. Murano Bolts on track adjuster covers are frozen. Adjusted tracks power washed.

# Maintenance Work Order

**Work Order:** 28574  
**Priority:** Normal  
**Due Date:**

**Scheduling:**

**Status:** Closed  
**Status Date:** 5/23/2017

Mechanic Name	Schedule Date	Work Complete?
Eric P. Nichols	3/17/2017	<input checked="" type="checkbox"/>

Equipment ID: 22-026	Description: Cat 963D Track Loader
Work Order Job: YARD	VIN #
Current Job: 24-R137	Serial # LCS02190
Current Location: 24-R137	License Plate #
Equipment Foreman:	Make: Cat
Work Order Foreman:	Model: 963D
	Carrier Name:

Meter Reading: Hours: 4880 on 5/22/2017 by Trevor L. Williams  
 Odometer: on by  
 Last Hour Service (Lifetime): 4656 (4656) on 12/12/2016  
 Last Odometer Service (Lifetime): on

**Problem Description:** Electrical system fault. Fork slider bar missing. A/C not working.

**Labor Items:**

Work Code	Item Code	ST	OT	DT	
Diagnose	13 - Lighting / Charging / Starting System:Cable, Terminals and Wiring		0.50	0.00	0.00
Recharge	28 - Air Conditioning / Heating System		1.50	0.00	0.00

**Parts List:**

Part Num	Name	UOM	Qty Used	
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**Cost Ledger:**

Type	Ref Num	Description	Estimated Cost
Parts		Invoice #: pc501190474, Item Description: Plate Tool, Vendor Name: Ziegler, Inc.	\$0.00

**Reconciled Purchases:**

Part Num	Description	Invoice #	Ref #	Qty Used	
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# Maintenance Work Order

**Work Order:** 28574  
**Priority:** Normal  
**Due Date:**

Notes:

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- 5/17/2017 Eric P. Nichols Checked a/c low pressure. Evaced, low charge. Checked for leak, couldn't find one. Recharged a/c. Pressures normal, cooling good.
- 3/17/2017 Eric P. Nichols diagnose fault code. Didn't find anything at this time. Cleared codes.

# Maintenance Work Order

**Work Order:** 27790  
**Priority:** Normal  
**Due Date:**

**Scheduling:**

**Status:** Closed  
**Status Date:** 12/20/2016

Mechanic Name	Schedule Date	Work Complete?
Christopher J. Murano	12/6/2016	<input checked="" type="checkbox"/>
Timothy M. Kirkman	12/6/2016	<input checked="" type="checkbox"/>

Equipment ID: 22-026	Description: Cat 963D Track Loader
Work Order Job: 16-S462	VIN #
Current Job: 24-R137	Serial # LCS02190
Current Location: 24-R137	License Plate #
Equipment Foreman:	Make: Cat
Work Order Foreman:	Model: 963D
	Carrier Name:

Meter Reading: Hours: 4656 on 12/12/2016 by Kraig L. Kuhse  
 Odometer: on by  
 Last Hour Service (Lifetime): 4656 (4656) on 12/12/2016  
 Last Odometer Service (Lifetime): on

**Problem Description:** PM4/2000hr. Do not change fuel filters, they were just changed.

**Labor Items:**

Work Code	Item Code	ST	OT	DT	
Perform	26 - PM / Service:PM's Hours:PM4/2,000		11.00	0.00	0.00

**Parts List:**

Part Num	Name	UOM	Qty Used	
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**Cost Ledger:**

Type	Ref Num	Description	Estimated Cost	
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**Reconciled Purchases:**

Part Num	Description	Invoice #	Ref #	Qty Used	
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# Maintenance Work Order

**Work Order:** 27790  
**Priority:** Normal  
**Due Date:**

Notes:

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# Maintenance Work Order

**Work Order:** 27780  
**Priority:** Normal  
**Due Date:**

**Scheduling:**

**Status:** Closed  
**Status Date:** 12/14/2016

Mechanic Name	Schedule Date	Work Complete?
Eric P. Nichols	12/5/2016	<input checked="" type="checkbox"/>
Kyle J. King	12/7/2016	<input checked="" type="checkbox"/>

Equipment ID: 22-026	Description: Cat 963D Track Loader
Work Order Job: 16-S462	VIN #
Current Job: 24-R137	Serial # LCS02190
Current Location: 24-R137	License Plate #
Equipment Foreman:	Make: Cat
Work Order Foreman:	Model: 963D
	Carrier Name:

Meter Reading: Hours: 4656 on 12/12/2016 by Kraig L. Kuhse  
 Odometer: on by  
 Last Hour Service (Lifetime): 4656 (4656) on 12/12/2016  
 Last Odometer Service (Lifetime): on

**Problem Description:** #2 fuel filter restriction light on. Engine oil leaking from water pump, Ziegler replaced water pump under warranty.

**Labor Items:**

Work Code	Item Code	ST	OT	DT	
Add Fluid	11 - Engine:Engine Oil		0.50	0.00	0.00
Diagnose	19 - Cooling System:Water Pump		1.75	0.00	0.00
Replace	15 - Fuel System:Fuel Filter		1.50	0.00	0.00

**Parts List:**

Part Num	Name	UOM	Qty Used	
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**Cost Ledger:**

Type	Ref Num	Description	Estimated Cost	
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**Reconciled Purchases:**

Part Num	Description	Invoice #	Ref #	Qty Used	
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# Maintenance Work Order

**Work Order:** 27780  
**Priority:** Normal  
**Due Date:**

Notes:

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12/8/2016	Eric P. Nichols	Checked engine oil level, it was good just below full mark.
12/7/2016	Kyle J. King	Cleaned area up and run unit. Found oil leaking from water pump weep hole.
12/5/2016	Eric P. Nichols	Replaced fuel filters. Cleared logged code.

# Maintenance Work Order

**Work Order:** 27173  
**Priority:** Normal  
**Due Date:**

**Scheduling:**

**Status:** Closed  
**Status Date:** 11/22/2016

Mechanic Name	Schedule Date	Work Complete?
Mark E. McNaughton	10/28/2016	<input checked="" type="checkbox"/>
Wade J. Smith	10/28/2016	<input checked="" type="checkbox"/>

Equipment ID:	22-026	Description:	Cat 963D Track Loader
Work Order Job:	16-L101	VIN #	
Current Job:	24-R137	Serial #	LCS02190
Current Location:	24-R137	License Plate #	
Equipment Foreman:		Make:	Cat
Work Order Foreman:		Model:	963D
		Carrier Name:	

Meter Reading: Hours: 4565 on 11/21/2016 by Kraig L. Kuhse  
 Odometer: on by  
 Last Hour Service (Lifetime): 4389 (4389) on 9/26/2016  
 Last Odometer Service (Lifetime): on

**Problem Description:** Repair inspection. Replace rails, segments, bottom rollers and idlers. Rebuild idler pivots. Repair cracks in hood. Add 2% ELC coolant extender to cooling system. Pro Auto Glass replaced rear window.

**Labor Items:**

Work Code	Item Code	ST	OT	DT	
Inspect	10 - Inspection / Cleaning:Repair Inspection		4.00	0.00	0.00
Inspect	13 - Lighting / Charging / Starting System:Cable, Terminals and Wiring		3.00	0.00	0.00
Install	17 - Undercarriage:Steel Track		3.00	0.00	0.00
Remove	17 - Undercarriage:Steel Track		2.00	0.00	0.00
Repair	11 - Engine:Muffler		1.00	0.00	0.00
Repair	27 - Cab / Body		3.00	0.00	0.00
Replace	17 - Undercarriage:Bottom Rollers		11.00	0.00	0.00
Replace	17 - Undercarriage:Idlers		10.00	0.00	0.00
Replace	17 - Undercarriage:Segments		3.00	0.00	0.00
Replace	27 - Cab / Body:Glass		2.50	0.00	0.00
Replace	27 - Cab / Body:Windshield Wiper		1.00	0.00	0.00

# Maintenance Work Order

**Work Order:** 27173  
**Priority:** Normal  
**Due Date:**

## Parts List:

Part Num	Name	UOM	Qty Used
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## Cost Ledger:

Type	Ref Num	Description	Estimated Cost
Parts		Invoice #: pr500114730, Item Description: Seal,washer,spring,strips, Vendor Name: Ziegler, Inc.	\$0.00
Parts		Invoice #: pc501162563, Item Description: Rod,Tube.Washer,Nut, Vendor Name: Ziegler, Inc.	\$0.00
Parts		Invoice #: pc501162877, Item Description: Strips, Vendor Name: Ziegler, Inc.	\$0.00
Parts		Invoice #: pc501162557, Item Description: Washer, Bolt, Strips, Vendor Name: Ziegler, Inc.	\$0.00
Parts		Invoice #: pc501162298, Item Description: Bearings,Seals, Vendor Name: Ziegler, Inc.	\$0.00
Parts		Invoice #: pc501164696, Item Description: Rear Glass, Vendor Name: Ziegler, Inc.	\$0.00
Parts		Invoice #: 31483, Item Description: Rpl Back Glass, Vendor Name: Pro Auto Glass	\$0.00
Parts		Invoice #: sw500183803, Item Description: Undercarriage, idler wheel, Vendor Name: Ziegler, Inc.	\$0.00

## Reconciled Purchases:

Part Num	Description	Invoice #	Ref #	Qty Used
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## Maintenance Work Order

**Work Order:** 27173  
**Priority:** Normal  
**Due Date:**

Notes:

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11/17/2016 Mark E. McNaughton Tilt cab for glass replacement.I also added coolant extender  
11/7/2016 Mark E. McNaughton Tilt cab and try to see a bad spot in the harness  
11/4/2016 Mark E. McNaughton Replace all bottom rollers, re bearing idler pivots and install rebuilt idlers,start to wrap tracks  
10/28/2016 Wade J. Smith Repaired cracks in hood and muffler.  
10/28/2016 Mark E. McNaughton remove tracks so cat can switch rails,I also removed the hood so Wade can fix it

# Maintenance Work Order

**Work Order:** 26446  
**Priority:** Normal  
**Due Date:**

**Scheduling:**

**Status:** Closed  
**Status Date:** 10/4/2016

Mechanic Name	Schedule Date	Work Complete?
Christopher J. Murano	9/20/2016	<input checked="" type="checkbox"/>
Timothy M. Kirkman	9/20/2016	<input checked="" type="checkbox"/>

Equipment ID: 22-026	Description: Cat 963D Track Loader
Work Order Job: 16-P130	VIN #
Current Job: 24-R137	Serial # LCS02190
Current Location: 24-R137	License Plate #
Equipment Foreman:	Make: Cat
Work Order Foreman:	Model: 963D
	Carrier Name:

Meter Reading: Hours: 4389 on 9/26/2016 by Kraig L. Kuhse  
 Odometer: on by  
 Last Hour Service (Lifetime): 4389 (4389) on 9/26/2016  
 Last Odometer Service (Lifetime): on

Problem Description: PM1/250hr.

**Labor Items:**

Work Code	Item Code	ST	OT	DT	
Perform	26 - PM / Service:PM's Hours:PM1/250		9.00	0.00	0.00

**Parts List:**

Part Num	Name	UOM	Qty Used	
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**Cost Ledger:**

Type	Ref Num	Description	Estimated Cost	
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**Reconciled Purchases:**

Part Num	Description	Invoice #	Ref #	Qty Used	
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# Maintenance Work Order

**Work Order:** 26446  
**Priority:** Normal  
**Due Date:**

**Notes:**

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- 9/26/2016 Christopher J. Murano Adjusted both tracks and segments are worn to a pont.
- 9/26/2016 Timothy M. Kirkman Power washed machine.

# Maintenance Work Order

**Work Order:** 26073  
**Priority:** Normal  
**Due Date:**

**Scheduling:**

**Status:** Closed  
**Status Date:** 8/31/2016

Mechanic Name	Schedule Date	Work Complete?
Kyle J. King	8/27/2016	<input checked="" type="checkbox"/>

Equipment ID: 22-026	Description: Cat 963D Track Loader
Work Order Job: 15-A210	VIN #
Current Job: 24-R137	Serial # LCS02190
Current Location: 24-R137	License Plate #
Equipment Foreman:	Make: Cat
Work Order Foreman:	Model: 963D
	Carrier Name:

Meter Reading: Hours: 4274 on 8/29/2016 by Kraig L. Kuhse  
 Odometer: on by  
 Last Hour Service (Lifetime): 4106 (4106) on 8/2/2016  
 Last Odometer Service (Lifetime): on

**Problem Description:** #2 fuel filter restriction. Ziegler install Cat fabricated bucket link.

**Labor Items:**

Work Code	Item Code	ST	OT	DT	
Replace	15 - Fuel System:Fuel Filter		1.50	0.00	0.00

**Parts List:**

Part Num	Name	UOM	Qty Used	
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**Cost Ledger:**

Type	Ref Num	Description	Estimated Cost
Parts		Invoice #: pc501149528, Item Description: Filters, Vendor Name: Ziegler, Inc.	\$0.00

**Reconciled Purchases:**

Part Num	Description	Invoice #	Ref #	Qty Used	
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**Notes:**

8/27/2016 Kyle J. King Replaced filter and cleared code.

# Maintenance Work Order

**Work Order:** 25752  
**Priority:** Normal  
**Due Date:**

**Scheduling:**

**Status:** Closed  
**Status Date:** 8/16/2016

Mechanic Name	Schedule Date	Work Complete?
Kyle J. King	8/9/2016	<input checked="" type="checkbox"/>

Equipment ID: 22-026	Description: Cat 963D Track Loader
Work Order Job: 16-S443	VIN #
Current Job: 24-R137	Serial # LCS02190
Current Location: 24-R137	License Plate #
Equipment Foreman:	Make: Cat
Work Order Foreman:	Model: 963D
	Carrier Name:

Meter Reading: Hours: 4181 on 8/16/2016 by Trevor L. Williams  
 Odometer: on by  
 Last Hour Service (Lifetime): 4106 (4106) on 8/2/2016  
 Last Odometer Service (Lifetime): on

**Problem Description:** Need new bucket teeth. Inspect track segments.

**Labor Items:**

Work Code	Item Code	ST	OT	DT	
Inspect	17 - Undercarriage:Segments		0.25	0.00	0.00
Replace	23 - Cutting Edge / Teeth:Teeth, Pins and Retainers		1.00	0.00	0.00

**Parts List:**

Part Num	Name	UOM	Qty Used	
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**Cost Ledger:**

Type	Ref Num	Description	Estimated Cost	
Parts		Invoice #: pc501146007, Item Description: Get Retainer, Gen Tip, Vendor Name: Ziegler, Inc.	\$0.00	

**Reconciled Purchases:**

Part Num	Description	Invoice #	Ref #	Qty Used	
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# Maintenance Work Order

**Work Order:** 25752  
**Priority:** Normal  
**Due Date:**

**Notes:**

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8/13/2016      Kyle J. King      Installed new teeth.

# Maintenance Work Order

**Work Order:** 25593  
**Priority:** Normal  
**Due Date:**

**Scheduling:**

**Status:** Closed  
**Status Date:** 8/9/2016

Mechanic Name	Schedule Date	Work Complete?
Christopher J. Murano	7/30/2016	<input checked="" type="checkbox"/>
Timothy M. Kirkman	7/30/2016	<input checked="" type="checkbox"/>

Equipment ID: 22-026	Description: Cat 963D Track Loader
Work Order Job: 16-S443	VIN #
Current Job: 24-R137	Serial # LCS02190
Current Location: 24-R137	License Plate #
Equipment Foreman:	Make: Cat
Work Order Foreman:	Model: 963D
	Carrier Name:

Meter Reading: Hours: 4106 on 8/2/2016 by Timothy M. Kirkman  
 Odometer: on by  
 Last Hour Service (Lifetime): 4106 (4106) on 8/2/2016  
 Last Odometer Service (Lifetime): on

Problem Description: PM2/500hr.

**Labor Items:**

Work Code	Item Code	ST	OT	DT	
Perform	26 - PM / Service:PM's Hours:PM2/500		6.00	0.00	0.00

**Parts List:**

Part Num	Name	UOM	Qty Used	
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**Cost Ledger:**

Type	Ref Num	Description	Estimated Cost	
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**Reconciled Purchases:**

Part Num	Description	Invoice #	Ref #	Qty Used	
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# Maintenance Work Order

**Work Order:** 25593  
**Priority:** Normal  
**Due Date:**

**Notes:**

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8/2/2016 Timothy M. Kirkman Segments are getting worn. Right final had alot of silver sludge on it. Sheet metal on hood cracking around exhaust.

# Maintenance Work Order

**Work Order:** 25070  
**Priority:** Normal  
**Due Date:**

**Scheduling:**

**Status:** Closed  
**Status Date:** 7/6/2016

Mechanic Name	Schedule Date	Work Complete?
Eric P. Nichols	6/29/2016	<input checked="" type="checkbox"/>

Equipment ID: 22-026	Description: Cat 963D Track Loader
Work Order Job: 16-S427	VIN #
Current Job: 24-R137	Serial # LCS02190
Current Location: 24-R137	License Plate #
Equipment Foreman:	Make: Cat
Work Order Foreman:	Model: 963D
	Carrier Name:

Meter Reading: Hours: 3941 on 7/5/2016 by Trevor L. Williams  
 Odometer: on by  
 Last Hour Service (Lifetime): 3847 (3847) on 6/18/2016  
 Last Odometer Service (Lifetime): on

**Problem Description:** Inspect tracks.

**Labor Items:**

Work Code	Item Code	ST	OT	DT	
Inspect	17 - Undercarriage		1.50	0.00	0.00

**Parts List:**

Part Num	Name	UOM	Qty Used	
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**Cost Ledger:**

Type	Ref Num	Description	Estimated Cost	
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**Reconciled Purchases:**

Part Num	Description	Invoice #	Ref #	Qty Used	
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**Notes:**

6/29/2016 Eric P. Nichols Inspected undercarriage, segments getting sharp. Track bushings worn.

# Maintenance Work Order

**Work Order:** 24852  
**Priority:** Normal  
**Due Date:**

**Scheduling:**

**Status:** Closed  
**Status Date:** 6/29/2016

Mechanic Name	Schedule Date	Work Complete?
Christopher J. Murano	6/18/2016	<input checked="" type="checkbox"/>
Timothy M. Kirkman	6/18/2016	<input checked="" type="checkbox"/>

Equipment ID: 22-026	Description: Cat 963D Track Loader
Work Order Job: 16-R277	VIN #
Current Job: 24-R137	Serial # LCS02190
Current Location: 24-R137	License Plate #
Equipment Foreman:	Make: Cat
Work Order Foreman:	Model: 963D
	Carrier Name:

Meter Reading: Hours: 3847 on 6/18/2016 by Trevor L. Williams  
 Odometer: on by  
 Last Hour Service (Lifetime): 3847 (3847) on 6/18/2016  
 Last Odometer Service (Lifetime): on

Problem Description: PM1/250hr.

**Labor Items:**

Work Code	Item Code	ST	OT	DT	
Perform	26 - PM / Service:PM's Hours:PM1/250		7.00	0.00	0.00

**Parts List:**

Part Num	Name	UOM	Qty Used	
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**Cost Ledger:**

Type	Ref Num	Description	Estimated Cost	
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**Reconciled Purchases:**

Part Num	Description	Invoice #	Ref #	Qty Used	
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# Maintenance Work Order

**Work Order:** 24852  
**Priority:** Normal  
**Due Date:**

**Notes:**

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6/20/2016 Timothy M. Kirkman Segments are worn down to a point and the undercarriage is pretty worn out. Power washed machine.

# Maintenance Work Order

**Work Order:** 24783  
**Priority:** Normal  
**Due Date:**

**Scheduling:**

**Status:** Closed  
**Status Date:** 6/20/2016

Mechanic Name	Schedule Date	Work Complete?
Kyle J. King	6/15/2016	<input checked="" type="checkbox"/>
John J. Lauber	6/17/2016	<input checked="" type="checkbox"/>

Equipment ID: 22-026	Description: Cat 963D Track Loader
Work Order Job: 16-S427	VIN #
Current Job: 24-R137	Serial # LCS02190
Current Location: 24-R137	License Plate #
Equipment Foreman:	Make: Cat
Work Order Foreman:	Model: 963D
	Carrier Name:

Meter Reading: Hours: 3856 on 6/20/2016 by Trevor L. Williams  
 Odometer: on by  
 Last Hour Service (Lifetime): 3847 (3847) on 6/18/2016  
 Last Odometer Service (Lifetime): on

**Problem Description:** Air restriction light come on.

**Labor Items:**

Work Code	Item Code	ST	OT	DT	
Clean	11 - Engine:Air Filter		1.00	0.00	0.00
Replace	11 - Engine:Air Filter		1.00	0.00	0.00

**Parts List:**

Part Num	Name	UOM	Qty Used	
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**Cost Ledger:**

Type	Ref Num	Description	Estimated Cost	
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**Reconciled Purchases:**

Part Num	Description	Invoice #	Ref #	Qty Used	
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# Maintenance Work Order

**Work Order:** 24783  
**Priority:** Normal  
**Due Date:**

**Notes:**

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6/17/2016 John J. Lauber Replaced primary and secondary air filters.  
6/15/2016 Kyle J. King Took air filter and precleaner out and blew both out. Should probably replace filter.

# Maintenance Work Order

**Work Order:** 24566  
**Priority:** Normal  
**Due Date:**

**Scheduling:**

**Status:** Closed  
**Status Date:** 6/15/2016

Mechanic Name	Schedule Date	Work Complete?
Kyle J. King	6/3/2016	<input checked="" type="checkbox"/>
Wade J. Smith	6/6/2016	<input checked="" type="checkbox"/>

Equipment ID: 22-026	Description: Cat 963D Track Loader
Work Order Job: 16-S427	VIN #
Current Job: 24-R137	Serial # LCS02190
Current Location: 24-R137	License Plate #
Equipment Foreman:	Make: Cat
Work Order Foreman:	Model: 963D
	Carrier Name:

Meter Reading: Hours: 3809 on 6/14/2016 by Trevor L. Williams  
 Odometer: on by  
 Last Hour Service (Lifetime): 3597 (3597) on 5/18/2016  
 Last Odometer Service (Lifetime): on

**Problem Description:** Unit lost tooth. Bottom of hitch bent up, can't hook up disk. Resize hitch to 1 3/4 drawbar pin.

**Labor Items:**

Work Code	Item Code	ST	OT	DT	
	25 -				
Parts Delivery or Pickup	Attachments:Hitch, Pin and Retainer		1.00	0.00	0.00
	25 -				
Repair	Attachments:Hitch, Pin and Retainer		4.00	0.00	0.00
	23 - Cutting Edge /				
Replace	Teeth:Teeth, Pins and Retainers		1.00	0.00	0.00

**Parts List:**

Part Num	Name	UOM	Qty Used	

**Cost Ledger:**

Type	Ref Num	Description	Estimated Cost
Parts		Invoice #: pc501134362, Item Description: Gen Tip, Get Retainer, Vendor Name: Ziegler, Inc.	\$0.00

**Reconciled Purchases:**

Part Num	Description	Invoice #	Ref #	Qty Used

# Maintenance Work Order

**Work Order:** 24566  
**Priority:** Normal  
**Due Date:**

**Notes:**

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- 6/6/2016 Wade J. Smith Resize hole in hitch.
- 6/6/2016 Kyle J. King Straightened hitch, removed hitch to size for a smaller pin. Took hitch back to loader and installed.
- 6/3/2016 Kyle J. King Picked up tooth and replaced.

# Maintenance Work Order

**Work Order:** 24174  
**Priority:** Normal  
**Due Date:**

**Scheduling:**

**Status:** Closed  
**Status Date:** 5/24/2016

Mechanic Name	Schedule Date	Work Complete?
Christopher J. Murano	5/18/2016	<input checked="" type="checkbox"/>
Timothy M. Kirkman	5/18/2016	<input checked="" type="checkbox"/>

Equipment ID: 22-026	Description: Cat 963D Track Loader
Work Order Job: 15-B178	VIN #
Current Job: 24-R137	Serial # LCS02190
Current Location: 24-R137	License Plate #
Equipment Foreman:	Make: Cat
Work Order Foreman:	Model: 963D
	Carrier Name:

Meter Reading: Hours: 3597 on 5/18/2016 by Christopher J. Murano

Odometer: on by  
 Last Hour Service (Lifetime): 3597 (3597) on 5/18/2016  
 Last Odometer Service (Lifetime): on

Problem Description: PM3/1000hr.

**Labor Items:**

Work Code	Item Code	ST	OT	DT	
Perform	26 - PM / Service:PM's Hours:PM3/1,000		6.00	0.00	0.00

**Parts List:**

Part Num	Name	UOM	Qty Used	

**Cost Ledger:**

Type	Ref Num	Description	Estimated Cost	

**Reconciled Purchases:**

Part Num	Description	Invoice #	Ref #	Qty Used	

# Maintenance Work Order

**Work Order:** 24174  
**Priority:** Normal  
**Due Date:**

**Notes:**

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5/18/2016 Christopher J. Murano Washed machine.

# Maintenance Work Order

**Work Order:** 24195  
**Priority:** Normal  
**Due Date:**

Scheduling:

**Status:** Closed  
**Status Date:** 5/18/2016

Mechanic Name	Schedule Date	Work Complete?
Kyle J. King	5/12/2016	<input checked="" type="checkbox"/>

Equipment ID: 22-026 Description: Cat 963D Track Loader  
Work Order Job: 15-B178 VIN #  
Current Job: 24-R137 Serial # LCS02190  
Current Location: 24-R137 License Plate #  
Equipment Foreman: Make: Cat  
Work Order Foreman: Model: 963D  
Carrier Name:

Meter Reading: Hours: 3579 on 5/17/2016 by Trevor L. Williams  
Odometer: on by  
Last Hour Service (Lifetime): 3282 (3282) on 3/28/2016  
Last Odometer Service (Lifetime): on

Problem Description: Tooth fell off.

Labor Items:

Work Code	Item Code	ST	OT	DT	
Install	23 - Cutting Edge / Teeth:Teeth, Pins and Retainers		1.00	0.00	0.00

Parts List:

Part Num	Name	UOM	Qty Used	
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Cost Ledger:

Type	Ref Num	Description	Estimated Cost	
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Reconciled Purchases:

Part Num	Description	Invoice #	Ref #	Qty Used	
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Notes:

5/12/2016 Kyle J. King Put tooth back on with new retainer.

# Maintenance Work Order

**Work Order:** 23017  
**Priority:** Normal  
**Due Date:**

**Scheduling:**

**Status:** Closed  
**Status Date:** 5/5/2016

Mechanic Name	Schedule Date	Work Complete?
Kyle J. King	2/25/2016	<input checked="" type="checkbox"/>
Eric P. Nichols	2/27/2016	<input checked="" type="checkbox"/>

Equipment ID: 22-026	Description: Cat 963D Track Loader
Work Order Job:	VIN #
Current Job: 24-R137	Serial # LCS02190
Current Location: 24-R137	License Plate #
Equipment Foreman:	Make: Cat
Work Order Foreman:	Model: 963D
	Carrier Name:

Meter Reading: Hours: 3233 on 3/21/2016 by Trevor L. Williams  
 Odometer: on by  
 Last Hour Service (Lifetime): 3282 (3282) on 3/28/2016  
 Last Odometer Service (Lifetime): on

**Problem Description:** Unit has been running in flyash. Check filters and precleaner. Left drive motor speed sensor codes. Take engine oil sample. Hyd test line leaking. Wash machine.

**Labor Items:**

Work Code	Item Code	ST	OT	DT	
Clean	10 - Inspection / Cleaning:Clean Out Cab Filter, Condenser, Radiator		3.50	0.00	0.00
Diagnose	12 - Transmission / Power Train:Power Train Gauge,Sensor, Sender, Wiring		2.50	0.00	0.00
Repair	12 - Transmission / Power Train:Hydrostatic Fittings / Lines		2.00	0.00	0.00
Repair	12 - Transmission / Power Train:Power Train Gauge,Sensor, Sender, Wiring		1.50	0.00	0.00
Replace	11 - Engine:Air Filter		1.25	0.00	0.00
SOS	11 - Engine:Engine Oil		0.50	0.00	0.00

# Maintenance Work Order

**Work Order:** 23017  
**Priority:** Normal  
**Due Date:**

## Parts List:

Part Num	Name	UOM	Qty Used
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## Cost Ledger:

Type	Ref Num	Description	Estimated Cost
Parts		Invoice #: PC501120095, Item Description: Hose As, Vendor Name: Ziegler, Inc.	\$0.00

## Reconciled Purchases:

Part Num	Description	Invoice #	Ref #	Qty Used
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## Notes:

3/14/2016	Kyle J. King	Sprayed off radiator with brake cleaner and blowed off.		
3/12/2016	Kyle J. King	Found 2 diagnostic lines rubbing together, one leaking the other worn bad. Ordered both lines. Parts not in stock. Capped off line and topped off oil, 15gal.		
3/8/2016	Kyle J. King	Replaced air filters		
3/5/2016	Kyle J. King	Took oil sample of oil. Blew unit out and inspected and cleaned filters.		
3/1/2016	Eric P. Nichols	Diagnosed left drive motor speed sensor fault. Broken wire to sensor. Ran external wire to sensor.		
2/27/2016	Eric P. Nichols	Blew out radiator, filters. Replaced engine air filters.		
2/25/2016	Kyle J. King	Blew off air cleaner canister and removed primary filter and precleaner. Blew out box and precleaner and replaced both filters.		

# Maintenance Work Order

**Work Order:** 23478  
**Priority:** Normal  
**Due Date:**

**Scheduling:**

**Status:** Closed  
**Status Date:** 5/3/2016

Mechanic Name	Schedule Date	Work Complete?
Christopher J. Murano	4/9/2016	<input checked="" type="checkbox"/>
Timothy M. Kirkman	4/9/2016	<input checked="" type="checkbox"/>
Eric P. Nichols	4/15/2016	<input checked="" type="checkbox"/>
Kyle J. King	4/19/2016	<input checked="" type="checkbox"/>

Equipment ID:	22-026	Description:	Cat 963D Track Loader
Work Order Job:		VIN #	
Current Job:	24-R137	Serial #	LCS02190
Current Location:	24-R137	License Plate #	
Equipment Foreman:		Make:	Cat
Work Order Foreman:		Model:	963D
		Carrier Name:	

Meter Reading: Hours: 3471 on 5/3/2016 by Trevor L. Williams  
 Odometer: on by  
 Last Hour Service (Lifetime): 3282 (3282) on 3/28/2016  
 Last Odometer Service (Lifetime): on

**Problem Description:** SOS RH final and change oil, high particle count. LH drive motor solenoid fault. Dog bone broke. A/C not working, no power to clutch broken wire.

**Labor Items:**

Work Code	Item Code	ST	OT	DT	
Diagnose	28 - Air Conditioning / Heating System:Control, Cable, Switch, Relay, Wiring		1.50	0.00	0.00
Parts Delivery or Pickup	16 - Chassis / Suspension:Loader Frame		0.50	0.00	0.00
Repair	12 - Transmission / Power Train:Power Train Gauge,Sensor, Sender, Wiring		5.50	0.00	0.00
Repair	16 - Chassis / Suspension:Loader Frame		2.00	0.00	0.00
Repair	28 - Air Conditioning / Heating System:Control, Cable, Switch, Relay, Wiring		2.50	0.00	0.00
SOS	18 - Final Drive:Right Hand		2.00	0.00	0.00

# Maintenance Work Order

**Work Order:** 23478  
**Priority:** Normal  
**Due Date:**

## Parts List:

Part Num	Name	UOM	Qty Used
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## Cost Ledger:

Type	Ref Num	Description	Estimated Cost
Parts		Invoice #: pr500111794, Item Description: Bearing, Vendor Name: Ziegler, Inc.	\$0.00
Parts		Invoice #: pc501127630, Item Description: Adapter Str,Link&Brg,Bearing, Vendor Name: Ziegler, Inc.	\$0.00

## Reconciled Purchases:

Part Num	Description	Invoice #	Ref #	Qty Used
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## Notes:

4/28/2016	Eric P. Nichols	Routed external power wire from cab connector to a/c compressor. A/C system working now.
4/23/2016	Kyle J. King	Removed broken dog bone. Installed seals and grease fittings in new dog bone. Installed dog one and greased.
4/18/2016	Eric P. Nichols	Raised cab inspected harness for rubbing, pinch spots. Couldn't find any. Removed belly pans. Installed jumper wire in harness. Wiggled harness until code changed from open to shorted. Cut open harness, found broken wire & repaired. Installed belly pans, lowered cab.

# Maintenance Work Order

**Work Order:** 23579  
**Priority:** Normal  
**Due Date:**

**Scheduling:**

**Status:** Closed  
**Status Date:** 4/11/2016

Mechanic Name	Schedule Date	Work Complete?
Eric P. Nichols	4/4/2016	<input checked="" type="checkbox"/>

Equipment ID: 22-026	Description: Cat 963D Track Loader
Work Order Job:	VIN #
Current Job: 24-R137	Serial # LCS02190
Current Location: 24-R137	License Plate #
Equipment Foreman:	Make: Cat
Work Order Foreman:	Model: 963D
	Carrier Name:

Meter Reading: Hours: 3364 on 4/9/2016 by Trevor L. Williams  
 Odometer: on by  
 Last Hour Service (Lifetime): 3282 (3282) on 3/28/2016  
 Last Odometer Service (Lifetime): on

**Problem Description:** Quick attach hose blown. Left drive motor speed sensor codes again.

**Labor Items:**

Work Code	Item Code	ST	OT	DT	
Parts Delivery or Pickup	14 - Hydraulic System:Quick Attach Cylinder, Hose, Valve, Wiring		1.00	0.00	0.00
Repair	12 - Transmission / Power Train:Power Train Gauge,Sensor, Sender, Wiring		2.00	0.00	0.00
Replace	14 - Hydraulic System:Quick Attach Cylinder, Hose, Valve, Wiring		1.00	0.00	0.00

**Parts List:**

Part Num	Name	UOM	Qty Used	
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**Cost Ledger:**

Type	Ref Num	Description	Estimated Cost
Parts		Invoice #: pc501123882, Item Description: Hose As, Vendor Name: Ziegler, Inc.	\$0.00

# Maintenance Work Order

**Work Order:** 23579  
**Priority:** Normal  
**Due Date:**

## Reconciled Purchases:

Part Num	Description	Invoice #	Ref #	Qty Used	
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## Notes:

4/6/2016	Eric P. Nichols	No power to speed sensor. Wired in power from outside the harness. Sensor working again.			
4/4/2016	Eric P. Nichols	Picked up new hoses at Ziegler. Replaced hoses between coupler cylinders.			

# Maintenance Work Order

**Work Order:** 23451  
**Priority:** High  
**Due Date:**

**Scheduling:**

**Status:** Closed  
**Status Date:** 4/5/2016

Mechanic Name	Schedule Date	Work Complete?
Christopher J. Murano	3/26/2016	<input checked="" type="checkbox"/>
Timothy M. Kirkman	3/26/2016	<input checked="" type="checkbox"/>

Equipment ID: 22-026	Description: Cat 963D Track Loader
Work Order Job:	VIN #
Current Job: 24-R137	Serial # LCS02190
Current Location: 24-R137	License Plate #
Equipment Foreman:	Make: Cat
Work Order Foreman:	Model: 963D
	Carrier Name:

Meter Reading: Hours: 3282 on 3/28/2016 by Timothy M. Kirkman  
 Odometer: on by  
 Last Hour Service (Lifetime): 3282 (3282) on 3/28/2016  
 Last Odometer Service (Lifetime): on

Problem Description: PM1/250hr.

**Labor Items:**

Work Code	Item Code	ST	OT	DT	
Perform	26 - PM / Service:PM's Hours:PM1/250		8.00	0.00	0.00

**Parts List:**

Part Num	Name	UOM	Qty Used	
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**Cost Ledger:**

Type	Ref Num	Description	Estimated Cost	
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**Reconciled Purchases:**

Part Num	Description	Invoice #	Ref #	Qty Used	
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# Maintenance Work Order

**Work Order:** 23451  
**Priority:** High  
**Due Date:**

**Notes:**

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3/28/2016 Timothy M. Kirkman Looked good.

# Maintenance Work Order

**Work Order:** 23443  
**Priority:** Normal  
**Due Date:**

**Scheduling:**

**Status:** Closed  
**Status Date:** 3/30/2016

Mechanic Name	Schedule Date	Work Complete?
Kyle J. King	3/26/2016	<input checked="" type="checkbox"/>

Equipment ID: 22-026	Description: Cat 963D Track Loader
Work Order Job:	VIN #
Current Job: 24-R137	Serial # LCS02190
Current Location: 24-R137	License Plate #
Equipment Foreman:	Make: Cat
Work Order Foreman:	Model: 963D
	Carrier Name:

Meter Reading: Hours: 3292 on 3/29/2016 by Kraig L. Kuhse  
 Odometer: on by  
 Last Hour Service (Lifetime): 3282 (3282) on 3/28/2016  
 Last Odometer Service (Lifetime): on

**Problem Description:** Hyd leak at cylinder line block.

**Labor Items:**

Work Code	Item Code	ST	OT	DT	
Repair	14 - Hydraulic System:Hydraulic Fittings / Lines		1.75	0.00	0.00

**Parts List:**

Part Num	Name	UOM	Qty Used	
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**Cost Ledger:**

Type	Ref Num	Description	Estimated Cost	
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**Reconciled Purchases:**

Part Num	Description	Invoice #	Ref #	Qty Used	
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**Notes:**

3/26/2016 Kyle J. King Leaking oil out front nose of unit. Pulled front hood off and cleaned oil up. Run unit a couple times before finally found leak. Fitting loose on lift cylinder line block. Tightened up fitting and got leak stopped. Put unit back together and topped off oil.

# Maintenance Work Order

**Work Order:** 23356  
**Priority:** Normal  
**Due Date:**

**Scheduling:**

**Status:** Closed  
**Status Date:** 3/26/2016

Mechanic Name	Schedule Date	Work Complete?
Kyle J. King	3/22/2016	<input checked="" type="checkbox"/>

Equipment ID: 22-026	Description: Cat 963D Track Loader
Work Order Job:	VIN #
Current Job: 24-R137	Serial # LCS02190
Current Location: 24-R137	License Plate #
Equipment Foreman:	Make: Cat
Work Order Foreman:	Model: 963D
	Carrier Name:

Meter Reading: Hours: 3240 on 3/22/2016 by Kraig L. Kuhse  
 Odometer: on by  
 Last Hour Service (Lifetime): (3008) on 3/26/2016  
 Last Odometer Service (Lifetime): on

**Problem Description:** Take SOS of engine oil for Soot Level tracking.

**Labor Items:**

Work Code	Item Code	ST	OT	DT	
SOS	11 - Engine:Engine Oil		1.25	0.00	0.00

**Parts List:**

Part Num	Name	UOM	Qty Used	
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**Cost Ledger:**

Type	Ref Num	Description	Estimated Cost	
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**Reconciled Purchases:**

Part Num	Description	Invoice #	Ref #	Qty Used	
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**Notes:**

3/22/2016 Kyle J. King Went to on job site and found out machine had been moved. Found machine and took sample of engine oil.

# Maintenance Work Order

**Work Order:** 22293  
**Priority:** Normal  
**Due Date:**

**Scheduling:**

**Status:** Closed  
**Status Date:** 3/3/2016

Mechanic Name	Schedule Date	Work Complete?
Kyle J. King	12/29/2015	<input checked="" type="checkbox"/>
Eric P. Nichols	12/30/2015	<input checked="" type="checkbox"/>
Mark E. McNaughton	12/30/2015	<input checked="" type="checkbox"/>
Wade J. Smith	2/16/2016	<input checked="" type="checkbox"/>

Equipment ID: 22-026	Description: Cat 963D Track Loader
Work Order Job:	VIN #
Current Job: 24-R137	Serial # LCS02190
Current Location: 24-R137	License Plate #
Equipment Foreman:	Make: Cat
Work Order Foreman:	Model: 963D
	Carrier Name:

Meter Reading: Hours: 3008 on 2/15/2016 by Brian A. Moran  
 Odometer: on by  
 Last Hour Service (Lifetime): on  
 Last Odometer Service (Lifetime): on

**Problem Description:** Repair inspection. Performed by Ziegler at time of engine replacement. Replace segments and bolts for track runnout. Rebuild RH final drive.

**Labor Items:**

Work Code	Item Code	ST	OT	DT	
Fabricate	25 - Attachments: Hitch, Pin and Retainer		0.50	0.00	0.00
Hardsurface	25 - Attachments: Bucket		2.25	0.00	0.00
Inspect	10 - Inspection / Cleaning: Repair Inspection		5.50	0.00	0.00
Inspect	25 - Attachments: Pallet/Pipe Forks		1.50	0.00	0.00
Repair	25 - Attachments: Pallet/Pipe Forks		0.50	0.00	0.00

**Parts List:**

Part Num	Name	UOM	Qty Used	
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# Maintenance Work Order

**Work Order:** 22293  
**Priority:** Normal  
**Due Date:**

**Cost Ledger:**

Type	Ref Num	Description	Estimated Cost
Parts		Invoice #: PC501115207, Item Description: Pin, Plate Lock, Plate, Vendor Name: Ziegler, Inc.	\$0.00
Parts		Invoice #: SW500177476, Item Description: Fabr Gussets, Vendor Name: Ziegler, Inc.	\$0.00
Parts		Invoice #: SW500177476, Item Description: Rpr W Shield,, Vendor Name: Ziegler, Inc.	\$0.00
Parts		Invoice #: SW500177476, Item Description: Rpl Sprocket Segment, Vendor Name: Ziegler, Inc.	\$0.00
Parts		Invoice #: SW500177476, Item Description: Rem&Instal Eng,TBSAir Inlet, Vendor Name: Ziegler, Inc.	\$0.00

**Reconciled Purchases:**

Part Num	Description	Invoice #	Ref #	Qty Used
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**Notes:**

- 2/17/2016     Wade J. Smith     Hardsurface bucket.
- 2/16/2016     Mark E. McNaughton     Bring loader onto shop and look over.I also brought the fork in to look over. Ordered parts for the forks
- 12/31/2015     Mark E. McNaughton     Install belly pans so it can go to cat
- 12/29/2015     Kyle J. King     Dropped belly pans and got in wash bay for Trevor.

# Maintenance Work Order

**Work Order:** 21921  
**Priority:** Normal  
**Due Date:**

**Scheduling:**

**Status:** Closed  
**Status Date:** 1/12/2016

Mechanic Name	Schedule Date	Work Complete?
Timothy M. Kirkman	11/24/2015	<input checked="" type="checkbox"/>
Christopher J. Murano	11/24/2015	<input checked="" type="checkbox"/>
Kyle J. King	11/30/2015	<input checked="" type="checkbox"/>

Equipment ID: 22-026	Description: Cat 963D Track Loader
Work Order Job:	VIN #
Current Job: 24-R137	Serial # LCS02190
Current Location: 24-R137	License Plate #
Equipment Foreman:	Make: Cat
Work Order Foreman:	Model: 963D
	Carrier Name:

Meter Reading: Hours: 2874 on 12/8/2015 by Timothy M. Kirkman  
 Odometer: on by  
 Last Hour Service (Lifetime): on  
 Last Odometer Service (Lifetime): on

**Problem Description:** Change all air filters and power wash out radiator. Clean off flyash. Clean dirt out of lock holes on bucket. Adjust tracks.

**Labor Items:**

Work Code	Item Code	ST	OT	DT	
Adjust	17 - Undercarriage:Steel Track		1.00	0.00	0.00
Clean	10 - Inspection / Cleaning:Clean Out Cab Filter, Condenser, Radiator		6.25	0.00	0.00
Clean	10 - Inspection / Cleaning:Steam Cleaning		1.00	0.00	0.00
Inspect	11 - Engine:Air Filter Restriction Gauge		0.50	0.00	0.00
Replace	11 - Engine:Air Filter		0.50	0.00	0.00
Replace	28 - Air Conditioning / Heating System:Cab Air Filter		0.50	0.00	0.00

**Parts List:**

Part Num	Name	UOM	Qty Used	
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# Maintenance Work Order

**Work Order:** 21921  
**Priority:** Normal  
**Due Date:**

## Cost Ledger:

Type	Ref Num	Description	Estimated Cost
Parts		Invoice #: PC501104229, Item Description: Indicator As, Vendor Name: Ziegler, Inc.	\$0.00
Parts		Invoice #: PR500109932, Item Description: Indicator As, Vendor Name: Ziegler, Inc.	\$0.00

## Reconciled Purchases:

Part Num	Description	Invoice #	Ref #	Qty Used
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## Notes:

12/8/2015	Kyle J. King	Unit was blowing a ton of black smoke out of exhaust. Opened up doors on engine compartment and found main air hose from air cleaner to intake manifold was colapsed. Pulled air cleaner out again and removed precleaner, plugged solid. Cleaned all cyclones out of precleaner and straightened out hose. Unit runs great now.		
12/8/2015	Timothy M. Kirkman	Came out and power washed radiator out, adjusted both tracks and replaced all cab and engine air filters.		
12/7/2015	Kyle J. King	Blew unit off and cleaned holes in bucket.		
11/24/2015	Timothy M. Kirkman	Power washed radiator and change all air filters.		

# Maintenance Work Order

**Work Order:** 22283  
**Priority:** Normal  
**Due Date:**

**Scheduling:**

**Status:** Closed  
**Status Date:** 12/29/2015

Mechanic Name	Schedule Date	Work Complete?
Kyle J. King	12/28/2015	<input checked="" type="checkbox"/>

Equipment ID: 22-026	Description: Cat 963D Track Loader
Work Order Job:	VIN #
Current Job: 24-R137	Serial # LCS02190
Current Location: 24-R137	License Plate #
Equipment Foreman:	Make: Cat
Work Order Foreman:	Model: 963D
	Carrier Name:

Meter Reading: Hours: 3006 on 12/28/2015 by Kraig L. Kuhse  
 Odometer: on by  
 Last Hour Service (Lifetime): on  
 Last Odometer Service (Lifetime): on

**Problem Description:** Replace engine oil filter, cut apart and look for iron.

**Labor Items:**

Work Code	Item Code	ST	OT	DT	
Inspect	11 - Engine:Engine Oil Filter		1.00	0.00	0.00
Replace	11 - Engine:Engine Oil Filter		1.00	0.00	0.00

**Parts List:**

Part Num	Name	UOM	Qty Used	
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**Cost Ledger:**

Type	Ref Num	Description	Estimated Cost	
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**Reconciled Purchases:**

Part Num	Description	Invoice #	Ref #	Qty Used	
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# Maintenance Work Order

**Work Order:** 22283  
**Priority:** Normal  
**Due Date:**

**Notes:**

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12/28/2015    Kyle J. King            Removed and replaced filter. Cut open at shop and found metal flakes in filter media.

# Maintenance Work Order

**Work Order:** 22164  
**Priority:** Normal  
**Due Date:**

**Scheduling:**

**Status:** Closed  
**Status Date:** 12/22/2015

Mechanic Name	Schedule Date	Work Complete?
Kyle J. King	12/15/2015	<input checked="" type="checkbox"/>

Equipment ID: 22-026	Description: Cat 963D Track Loader
Work Order Job:	VIN #
Current Job: 24-R137	Serial # LCS02190
Current Location: 24-R137	License Plate #
Equipment Foreman:	Make: Cat
Work Order Foreman:	Model: 963D
	Carrier Name:

Meter Reading: Hours: 2982 on 12/21/2015 by Kraig L. Kuhse  
 Odometer: on by  
 Last Hour Service (Lifetime): on  
 Last Odometer Service (Lifetime): on

**Problem Description:** Check for engine oil leak. Leaving oil puddle when sits still for a few minutes.

**Labor Items:**

Work Code	Item Code	ST	OT	DT
Inspect	11 - Engine		0.75	0.00

**Parts List:**

Part Num	Name	UOM	Qty Used
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**Cost Ledger:**

Type	Ref Num	Description	Estimated Cost
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**Reconciled Purchases:**

Part Num	Description	Invoice #	Ref #	Qty Used
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**Notes:**

12/15/2015 Kyle J. King Looked inside engine bay and seen oil laying in belly pan. Oil is dripping off of blow-by tube. Could not find any other leaks. Got oil records from Casey.

# Maintenance Work Order

**Work Order:** 22197  
**Priority:** Normal  
**Due Date:**

**Scheduling:**

**Status:** Closed  
**Status Date:** 12/22/2015

Mechanic Name	Schedule Date	Work Complete?
Christopher J. Murano	12/17/2015	<input checked="" type="checkbox"/>
Timothy M. Kirkman	12/17/2015	<input checked="" type="checkbox"/>

Equipment ID: 22-026	Description: Cat 963D Track Loader
Work Order Job:	VIN #
Current Job: 24-R137	Serial # LCS02190
Current Location: 24-R137	License Plate #
Equipment Foreman:	Make: Cat
Work Order Foreman:	Model: 963D
	Carrier Name:

Meter Reading: Hours: 2947 on 12/17/2015 by Christopher J. Murano

Odometer: on by

Last Hour Service (Lifetime): on

Last Odometer Service (Lifetime): on

Problem Description: PM2/500hr.

**Labor Items:**

Work Code	Item Code	ST	OT	DT	
Perform	26 - PM / Service:PM's Hours:PM2/500		7.00	0.00	0.00

**Parts List:**

Part Num	Name	UOM	Qty Used	

**Cost Ledger:**

Type	Ref Num	Description	Estimated Cost	

**Reconciled Purchases:**

Part Num	Description	Invoice #	Ref #	Qty Used	

# Maintenance Work Order

**Work Order:** 22197  
**Priority:** Normal  
**Due Date:**

**Notes:**

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12/17/2015 Christopher J. Murano Alot of blow by, machine heavy in flyash. Looks like the bucket dog bone is bending.

# Maintenance Work Order

**Work Order:** 21869  
**Priority:** Normal  
**Due Date:**

**Scheduling:**

**Status:** Closed  
**Status Date:** 11/23/2015

Mechanic Name	Schedule Date	Work Complete?
Kyle J. King	11/19/2015	<input checked="" type="checkbox"/>

Equipment ID: 22-026	Description: Cat 963D Track Loader
Work Order Job:	VIN #
Current Job: 24-R137	Serial # LCS02190
Current Location: 24-R137	License Plate #
Equipment Foreman:	Make: Cat
Work Order Foreman:	Model: 963D
	Carrier Name:

Meter Reading: Hours: 2739 on 11/20/2015 by Kraig L. Kuhse  
 Odometer: on by  
 Last Hour Service (Lifetime): on  
 Last Odometer Service (Lifetime): on

Problem Description: Check on oil consumption status.

**Labor Items:**

Work Code	Item Code	ST	OT	DT
Inspect	11 - Engine		1.00	0.00

**Parts List:**

Part Num	Name	UOM	Qty Used
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**Cost Ledger:**

Type	Ref Num	Description	Estimated Cost
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**Reconciled Purchases:**

Part Num	Description	Invoice #	Ref #	Qty Used
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**Notes:**

11/20/2015 Kyle J. King Stopped and talked to Casey about oil consumption. Brought records to Brian.

# Maintenance Work Order

**Work Order:** 21765  
**Priority:** Normal  
**Due Date:**

**Scheduling:**

**Status:** Closed  
**Status Date:** 11/18/2015

Mechanic Name	Schedule Date	Work Complete?
Eric P. Nichols	11/13/2015	<input checked="" type="checkbox"/>

Equipment ID: 22-026	Description: Cat 963D Track Loader
Work Order Job:	VIN #
Current Job: 24-R137	Serial # LCS02190
Current Location: 24-R137	License Plate #
Equipment Foreman:	Make: Cat
Work Order Foreman:	Model: 963D
	Carrier Name:

Meter Reading: Hours: 2728 on 11/16/2015 by Kraig L. Kuhse  
 Odometer: on by  
 Last Hour Service (Lifetime): on  
 Last Odometer Service (Lifetime): on

**Problem Description:** Fuel door handle is bent but working. Replace front wiper blade.

**Labor Items:**

Work Code	Item Code	ST	OT	DT	
Replace	27 - Cab / Body:Door Latch / Lock		0.50	0.00	0.00

**Parts List:**

Part Num	Name	UOM	Qty Used	
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**Cost Ledger:**

Type	Ref Num	Description	Estimated Cost
Parts		Invoice #: PC501100559, Item Description: Winter Blade, Vendor Name: Ziegler, Inc.	\$0.00
Parts		Invoice #: PC501100329, Item Description: Latch As, Vendor Name: Ziegler, Inc.	\$0.00

**Reconciled Purchases:**

Part Num	Description	Invoice #	Ref #	Qty Used	
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# Maintenance Work Order

**Work Order:** 21765  
**Priority:** Normal  
**Due Date:**

**Notes:**

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11/13/2015    Eric P. Nichols    Replaced door latch.

# Maintenance Work Order

**Work Order:** 21716  
**Priority:** Normal  
**Due Date:**

**Scheduling:**

**Status:** Closed  
**Status Date:** 11/18/2015

Mechanic Name	Schedule Date	Work Complete?
Timothy M. Kirkman	11/10/2015	<input checked="" type="checkbox"/>
Christopher J. Murano	11/10/2015	<input checked="" type="checkbox"/>

Equipment ID: 22-026	Description: Cat 963D Track Loader
Work Order Job:	VIN #
Current Job: 24-R137	Serial # LCS02190
Current Location: 24-R137	License Plate #
Equipment Foreman:	Make: Cat
Work Order Foreman:	Model: 963D
	Carrier Name:

Meter Reading: Hours: 2680 on 11/10/2015 by Timothy M. Kirkman  
 Odometer: on by  
 Last Hour Service (Lifetime): on  
 Last Odometer Service (Lifetime): on

Problem Description: PM1/250hr.

**Labor Items:**

Work Code	Item Code	ST	OT	DT	
Perform	26 - PM / Service:PM's Hours:PM1/250		7.00	0.00	0.00

**Parts List:**

Part Num	Name	UOM	Qty Used	
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**Cost Ledger:**

Type	Ref Num	Description	Estimated Cost	
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**Reconciled Purchases:**

Part Num	Description	Invoice #	Ref #	Qty Used	
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# Maintenance Work Order

**Work Order:** 21716  
**Priority:** Normal  
**Due Date:**

**Notes:**

11/10/2015 Timothy M. Kirkman Machine is working in fly ash and is white .Adjusted both tracks. Engine oil viscosity is thick and tacky. Segments are now pointed . Handle on fuel door is bent but working still. Power washed radiator out.

# Maintenance Work Order

**Work Order:** 20707  
**Priority:** Normal  
**Due Date:**

**Scheduling:**

**Status:** Closed  
**Status Date:** 11/11/2015

Mechanic Name	Schedule Date	Work Complete?
Kyle J. King	9/14/2015	<input checked="" type="checkbox"/>
Eric P. Nichols	11/6/2015	<input checked="" type="checkbox"/>

Equipment ID: 22-026	Description: Cat 963D Track Loader
Work Order Job:	VIN #
Current Job: 24-R137	Serial # LCS02190
Current Location: 24-R137	License Plate #
Equipment Foreman:	Make: Cat
Work Order Foreman:	Model: 963D
	Carrier Name:

Meter Reading: Hours: 2680 on 11/10/2015 by Timothy M. Kirkman  
 Odometer: on by  
 Last Hour Service (Lifetime): on  
 Last Odometer Service (Lifetime): on

**Problem Description:** Radiator getting plugged from blow-by oily smoke. A/C not working. Send to Ziegler for blowby issue and cracked exhaust manifold. Hyd hose leaking.

**Labor Items:**

Work Code	Item Code	ST	OT	DT	
Add Fluid	11 - Engine:Engine Oil		0.25	0.00	0.00
Clean	10 - Inspection / Cleaning:Clean Out Cab Filter, Condenser, Radiator		0.50	0.00	0.00
Inspect	28 - Air Conditioning / Heating System		1.00	0.00	0.00
Replace	12 - Transmission / Power Train:Hydrostatic Fittings / Lines		4.50	0.00	0.00

**Parts List:**

Part Num	Name	UOM	Qty Used	
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**Cost Ledger:**

Type	Ref Num	Description	Estimated Cost
Parts		Invoice #: PC501098975, Item Description: Swival Mount, Hose As,Tie-Wrap, Vendor Name: Ziegler, Inc.	\$0.00

# Maintenance Work Order

**Work Order:** 20707  
**Priority:** Normal  
**Due Date:**

Reconciled Purchases:

Part Num	Description	Invoice #	Ref #	Qty Used	
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Notes:

11/6/2015	Eric P. Nichols	Removed belly pans. Added some oil to hyd tank. Ran machine & found leak on charge pressure hose. Ordered parts. Replaced hose, routed so it didn't rub. Topped off hyd oil. Topped off engine oil.			
9/16/2015	Kyle J. King	Check fuses and everything, condensor fans working. Checked for power at clutch, none. Jumped low pressure switch and had power. Checked for pressure on ports, none. Must have leak. Exhaust manifold is cracked.			
9/14/2015	Kyle J. King	Sprayed oily mess off with brakeclean and then blew out with compressed air.			

# Maintenance Work Order

**Work Order:** 21055  
**Priority:** Normal  
**Due Date:**

**Scheduling:**

**Status:** Closed  
**Status Date:** 10/7/2015

Mechanic Name	Schedule Date	Work Complete?
Timothy M. Kirkman	10/2/2015	<input checked="" type="checkbox"/>
Christopher J. Murano	10/2/2015	<input checked="" type="checkbox"/>

Equipment ID: 22-026	Description: Cat 963D Track Loader
Work Order Job:	VIN #
Current Job: 24-R137	Serial # LCS02190
Current Location: 24-R137	License Plate #
Equipment Foreman:	Make: Cat
Work Order Foreman:	Model: 963D
	Carrier Name:

Meter Reading: Hours: 2352 on 10/2/2015 by Timothy M. Kirkman  
 Odometer: on by  
 Last Hour Service (Lifetime): on  
 Last Odometer Service (Lifetime): on

Problem Description: PM4/2000hr.

**Labor Items:**

Work Code	Item Code	ST	OT	DT	
Perform	26 - PM / Service:PM's Hours:PM4/2,000		7.00	0.00	0.00

**Parts List:**

Part Num	Name	UOM	Qty Used	
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**Cost Ledger:**

Type	Ref Num	Description	Estimated Cost	
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**Reconciled Purchases:**

Part Num	Description	Invoice #	Ref #	Qty Used	
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# Maintenance Work Order

**Work Order:** 21055  
**Priority:** Normal  
**Due Date:**

**Notes:**

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10/2/2015 Timothy M. Kirkman Segments are almost to a point. Power washed machine . Did service in Zeiglers yard.

# Maintenance Work Order

**Work Order:** 20624  
**Priority:** Normal  
**Due Date:**

**Scheduling:**

**Status:** Closed  
**Status Date:** 9/8/2015

Mechanic Name	Schedule Date	Work Complete?
Kyle J. King	9/4/2015	<input checked="" type="checkbox"/>

Equipment ID: 22-026 Description: Cat 963D Track Loader  
Work Order Job: VIN #  
Current Job: 24-R137 Serial # LCS02190  
Current Location: 24-R137 License Plate #  
Equipment Foreman: Make: Cat  
Work Order Foreman: Model: 963D  
Carrier Name:

Meter Reading: Hours: 2281 on 9/8/2015 by Trevor L. Williams  
Odometer: on by  
Last Hour Service (Lifetime): on  
Last Odometer Service (Lifetime): on

Problem Description: Check for blow by again.

**Labor Items:**

Work Code	Item Code	ST	OT	DT	
Inspect	11 - Engine		1.50	0.00	0.00

**Parts List:**

Part Num	Name	UOM	Qty Used	
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**Cost Ledger:**

Type	Ref Num	Description	Estimated Cost	
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**Reconciled Purchases:**

Part Num	Description	Invoice #	Ref #	Qty Used	
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**Notes:**

9/4/2015 Kyle J. King Unit is still blowing smoke from radiator. Leaving oily film on radiator. Oil spot on belly pan.

# Maintenance Work Order

**Work Order:** 20208  
**Priority:** Normal  
**Due Date:**

**Scheduling:**

**Status:** Closed  
**Status Date:** 9/1/2015

Mechanic Name	Schedule Date	Work Complete?
Kyle J. King	8/10/2015	<input checked="" type="checkbox"/>

Equipment ID: 22-026	Description: Cat 963D Track Loader
Work Order Job:	VIN #
Current Job: 24-R137	Serial # LCS02190
Current Location: 24-R137	License Plate #
Equipment Foreman:	Make: Cat
Work Order Foreman:	Model: 963D
	Carrier Name:

Meter Reading: Hours: 2228 on 8/31/2015 by Trevor L. Williams  
 Odometer: on by  
 Last Hour Service (Lifetime): on  
 Last Odometer Service (Lifetime): on

**Problem Description:** Dog bone broke in half on loader, replace with new.

**Labor Items:**

Work Code	Item Code	ST	OT	DT	
Inspect	16 - Chassis / Suspension:Loader Frame		0.75	0.00	0.00
Parts Delivery or Pickup	16 - Chassis / Suspension:Loader Frame		0.75	0.00	0.00
Replace	16 - Chassis / Suspension:Loader Frame		3.50	0.00	0.00

**Parts List:**

Part Num	Name	UOM	Qty Used	
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**Cost Ledger:**

Type	Ref Num	Description	Estimated Cost
Parts		Invoice #: PC501085298, Item Description: Link & Brg, Vendor Name: Ziegler, Inc.	\$0.00
Parts		Invoice #: PC501085617, Item Description: Adapter Str,Spacer, Seal, Vendor Name: Ziegler, Inc.	\$0.00

**Reconciled Purchases:**

Part Num	Description	Invoice #	Ref #	Qty Used	
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# Maintenance Work Order

**Work Order:** 20208  
**Priority:** Normal  
**Due Date:**

**Notes:**

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- 8/28/2015 Kyle J. King Put new seals in link and installed link with new zerks. Greased.
- 8/27/2015 Kyle J. King Got broken pieces of link off and found out it didn't come with seals. Ordered seals.
- 8/10/2015 Kyle J. King Inspected unit and called Ziegler about parts. Dogbone will be ordered in.

# Maintenance Work Order

**Work Order:** 19920  
**Priority:** Normal  
**Due Date:**

**Scheduling:**

**Status:** Closed  
**Status Date:** 7/29/2015

Mechanic Name	Schedule Date	Work Complete?
Timothy M. Kirkman	7/21/2015	<input checked="" type="checkbox"/>
Douglas A. Nelson	7/21/2015	<input checked="" type="checkbox"/>

Equipment ID: 22-026	Description: Cat 963D Track Loader
Work Order Job:	VIN #
Current Job: 24-R137	Serial # LCS02190
Current Location: 24-R137	License Plate #
Equipment Foreman:	Make: Cat
Work Order Foreman:	Model: 963D
	Carrier Name:

Meter Reading: Hours: 2123 on 7/28/2015 by Grant R Sloan  
 Odometer: on by  
 Last Hour Service (Lifetime): on  
 Last Odometer Service (Lifetime): on

Problem Description: PM1/250hr.

**Labor Items:**

Work Code	Item Code	ST	OT	DT	
Perform	26 - PM / Service:PM's Hours:PM1/250		7.00	0.00	0.00

**Parts List:**

Part Num	Name	UOM	Qty Used	
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**Cost Ledger:**

Type	Ref Num	Description	Estimated Cost	
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**Reconciled Purchases:**

Part Num	Description	Invoice #	Ref #	Qty Used	
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# Maintenance Work Order

**Work Order:** 19920  
**Priority:** Normal  
**Due Date:**

**Notes:**

7/21/2015 Timothy M. Kirkman Machine has an open work order from Kyle. Belly pan was wet from blow by, but engine oil has 309 hours on it. Power washed machine.

# Maintenance Work Order

**Work Order:** 19891  
**Priority:** Normal  
**Due Date:**

**Scheduling:**

**Status:** Closed  
**Status Date:** 7/22/2015

Mechanic Name	Schedule Date	Work Complete?
Kyle J. King	7/18/2015	<input checked="" type="checkbox"/>

Equipment ID: 22-026	Description: Cat 963D Track Loader
Work Order Job:	VIN #
Current Job: 24-R137	Serial # LCS02190
Current Location: 24-R137	License Plate #
Equipment Foreman:	Make: Cat
Work Order Foreman:	Model: 963D
	Carrier Name:

Meter Reading: Hours: 2092 on 7/21/2015 by Trevor L. Williams  
 Odometer: on by  
 Last Hour Service (Lifetime): on  
 Last Odometer Service (Lifetime): on

Problem Description: Smoke/dust blowing out of radiator?

**Labor Items:**

Work Code	Item Code	ST	OT	DT
Clean	10 - Inspection / Cleaning:Clean Out Cab Filter, Condenser, Radiator		1.25	0.00

**Parts List:**

Part Num	Name	UOM	Qty Used
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**Cost Ledger:**

Type	Ref Num	Description	Estimated Cost
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**Reconciled Purchases:**

Part Num	Description	Invoice #	Ref #	Qty Used
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## Maintenance Work Order

**Work Order:** 19891  
**Priority:** Normal  
**Due Date:**

**Notes:**

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7/18/2015 Kyle J. King Watched unit run and seen what was blowing out thought it was just dust so blew out radiator and such. Then seen when engine runing it seemed to have a lot of blowbly. Looked up history and seen that it is due for a service.

# Maintenance Work Order

**Work Order:** 19195  
**Priority:** Normal  
**Due Date:**

**Scheduling:**

**Status:** Closed  
**Status Date:** 6/10/2015

Mechanic Name	Schedule Date	Work Complete?
Kyle J. King	6/2/2015	<input checked="" type="checkbox"/>

Equipment ID: 22-026	Description: Cat 963D Track Loader
Work Order Job:	VIN #
Current Job: 24-R137	Serial # LCS02190
Current Location: 24-R137	License Plate #
Equipment Foreman:	Make: Cat
Work Order Foreman:	Model: 963D
	Carrier Name:

Meter Reading: Hours: 1863 on 6/4/2015 by Kraig L. Kuhse  
 Odometer: on by  
 Last Hour Service (Lifetime): on  
 Last Odometer Service (Lifetime): on

**Problem Description:** Lock holes for quick attach on bucket full of dirt, pins hardly going in to lock. Won't raise bucket. Send to Ziegler for hyd and A/C problems.

**Labor Items:**

Work Code	Item Code	ST	OT	DT	
Clean	25 - Attachments:Quick Attach for Bucket / Attachment		1.00	0.00	0.00
Inspect	14 - Hydraulic System:Bucket Lift / Tilt Kickout System		0.50	0.00	0.00

**Parts List:**

Part Num	Name	UOM	Qty Used	
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**Cost Ledger:**

Type	Ref Num	Description	Estimated Cost	
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**Reconciled Purchases:**

Part Num	Description	Invoice #	Ref #	Qty Used	
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# Maintenance Work Order

**Work Order:** 19195  
**Priority:** Normal  
**Due Date:**

Notes:

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6/2/2015      Kyle J. King      Cleaned out holes on bucket. Test run and found that bucket wouldn't lift full or empty. Brain calling Ziegler on it.

# Maintenance Work Order

**Work Order:** 18815  
**Priority:** Normal  
**Due Date:**

**Scheduling:**

**Status:** Closed  
**Status Date:** 5/13/2015

Mechanic Name	Schedule Date	Work Complete?
Christopher J. Murano	5/4/2015	<input checked="" type="checkbox"/>
Timothy M. Kirkman	5/4/2015	<input checked="" type="checkbox"/>

Equipment ID: 22-026	Description: Cat 963D Track Loader
Work Order Job:	VIN #
Current Job: 24-R137	Serial # LCS02190
Current Location: 24-R137	License Plate #
Equipment Foreman:	Make: Cat
Work Order Foreman:	Model: 963D
	Carrier Name:

Meter Reading: Hours: 1783 on 5/4/2015 by Christopher J. Murano  
 Odometer: on by  
 Last Hour Service (Lifetime): on  
 Last Odometer Service (Lifetime): on

Problem Description: PM2/500hr and change oil in both final drives, high dirt.

**Labor Items:**

Work Code	Item Code	ST	OT	DT	
Perform	26 - PM / Service:PM's Hours:PM2/500		6.00	0.00	0.00
SOS	18 - Final Drive		2.00	0.00	0.00

**Parts List:**

Part Num	Name	UOM	Qty Used	
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**Cost Ledger:**

Type	Ref Num	Description	Estimated Cost	
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**Reconciled Purchases:**

Part Num	Description	Invoice #	Ref #	Qty Used	
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# Maintenance Work Order

**Work Order:** 18815  
**Priority:** Normal  
**Due Date:**

**Notes:**

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5/4/2015 Christopher J. Murano Adjusted both tracks.

# Maintenance Work Order

**Work Order:** 18502  
**Priority:** Normal  
**Due Date:**

**Scheduling:**

**Status:** Closed  
**Status Date:** 4/22/2015

Mechanic Name	Schedule Date	Work Complete?
Eric P. Nichols	4/20/2015	<input checked="" type="checkbox"/>

Equipment ID: 22-026	Description: Cat 963D Track Loader
Work Order Job:	VIN #
Current Job: 24-R137	Serial # LCS02190
Current Location: 24-R137	License Plate #
Equipment Foreman:	Make: Cat
Work Order Foreman:	Model: 963D
	Carrier Name:

Meter Reading: Hours: 1717 on 4/16/2015 by Kraig L. Kuhse  
 Odometer: on by  
 Last Hour Service (Lifetime): on  
 Last Odometer Service (Lifetime): on

**Problem Description:** No power to raise bucket, Ziegler warranty. Replace wipers.

**Labor Items:**

Work Code	Item Code	ST	OT	DT	
Calibrate	14 - Hydraulic System:Calibration of Hydraulic System		1.00	0.00	0.00
Diagnose	14 - Hydraulic System		0.50	0.00	0.00
Replace	27 - Cab / Body:Windshield Wiper		1.00	0.00	0.00

**Parts List:**

Part Num	Name	UOM	Qty Used	
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**Cost Ledger:**

Type	Ref Num	Description	Estimated Cost
Parts		Invoice #: PC501061403, Item Description: Blade, Blade wiper, Vendor Name: Ziegler, Inc.	\$0.00

**Reconciled Purchases:**

Part Num	Description	Invoice #	Ref #	Qty Used	
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# Maintenance Work Order

**Work Order:** 18502  
**Priority:** Normal  
**Due Date:**

Notes:

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4/13/2015      Eric P. Nichols      Calibrated hyd system. Ran machine, still not performing correctly. Only has power to lift when rackback function is also in use. Warranty repair. Picked up wiper blades at Zigler. Replaced wiper blades.

# Maintenance Work Order

**Work Order:** 18335  
**Priority:** Normal  
**Due Date:**

**Scheduling:**

**Status:** Closed  
**Status Date:** 4/8/2015

Mechanic Name	Schedule Date	Work Complete?
Eric P. Nichols	3/31/2015	<input checked="" type="checkbox"/>

Equipment ID: 22-026	Description: Cat 963D Track Loader
Work Order Job:	VIN #
Current Job: 24-R137	Serial # LCS02190
Current Location: 24-R137	License Plate #
Equipment Foreman:	Make: Cat
Work Order Foreman:	Model: 963D
	Carrier Name:

Meter Reading: Hours: 1677 on 4/7/2015 by Timothy M. Kirkman  
 Odometer: on by  
 Last Hour Service (Lifetime): on  
 Last Odometer Service (Lifetime): on

**Problem Description:** Broken grease zerk on coupler.

**Labor Items:**

Work Code	Item Code	ST	OT	DT	
Replace	16 - Chassis / Suspension:Grease Zerk, Line, or Hose		0.50	0.00	0.00

**Parts List:**

Part Num	Name	UOM	Qty Used	
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**Cost Ledger:**

Type	Ref Num	Description	Estimated Cost	
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**Reconciled Purchases:**

Part Num	Description	Invoice #	Ref #	Qty Used	
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**Notes:**

3/31/2015 Eric P. Nichols Drilled out broken zerk. Installed new zerk.

# Maintenance Work Order

**Work Order:** 17794  
**Priority:** Normal  
**Due Date:**

**Scheduling:**

**Status:** Closed  
**Status Date:** 3/25/2015

Mechanic Name	Schedule Date	Work Complete?
Eric P. Nichols	1/23/2015	<input checked="" type="checkbox"/>
Kyle J. King	1/26/2015	<input checked="" type="checkbox"/>
Kurtis M George	1/27/2015	<input checked="" type="checkbox"/>
Michael C. Ritz	3/18/2015	<input checked="" type="checkbox"/>

Equipment ID: 22-026	Description: Cat 963D Track Loader
Work Order Job:	VIN #
Current Job: 24-R137	Serial # LCS02190
Current Location: 24-R137	License Plate #
Equipment Foreman:	Make: Cat
Work Order Foreman:	Model: 963D
	Carrier Name:

Meter Reading: Hours: 1612 on 3/24/2015 by Timothy M. Kirkman  
 Odometer: on by  
 Last Hour Service (Lifetime): on  
 Last Odometer Service (Lifetime): on

**Problem Description:** Repair inspection. Tilt cylinder won't dump when loader arms are raised. Pin for quick tach cylinder missing. Repair cracked welds on quick attachment.

**Labor Items:**

Work Code	Item Code	ST	OT	DT	
Clean	10 - Inspection / Cleaning		9.00	0.00	0.00
Diagnose	14 - Hydraulic System:Bucket Lift / Tilt Kickout System		1.00	0.00	0.00
Inspect	10 - Inspection / Cleaning:Repair Inspection		2.00	0.00	0.00
Inspect	12 - Transmission / Power Train:Hydrostatic Drive		1.00	0.00	0.00
Install	27 - Cab / Body:Belly Pan / All Guards		4.00	0.00	0.00
Repair	25 - Attachments:Hitc h, Pin and Retainer		1.50	0.00	0.00
Repair	25 - Attachments:Quic k Attach for Bucket / Attachment		5.00	0.00	0.00

# Maintenance Work Order

**Work Order:** 17794  
**Priority:** Normal  
**Due Date:**

## Parts List:

Part Num	Name	UOM	Qty Used
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## Cost Ledger:

Type	Ref Num	Description	Estimated Cost
Parts		Invoice #: PC501046792, Item Description: Cotter Pin, Pin, Vendor Name: Ziegler, Inc.	\$0.00

## Reconciled Purchases:

Part Num	Description	Invoice #	Ref #	Qty Used
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## Notes:

3/18/2015	Michael C. Ritz	Gouged out all the broken welds on the quick attachment and rewelded them. Didn't straiten damage per Brian. Returned to the yard.
2/6/2015	Kyle J. King	Finished putting sheetmetal back on unit. Heated up lower ear of hitch and pulled back down.
2/5/2015	Kyle J. King	Blew off snow and brought inside. Put belly pans back on.
1/27/2015	Kyle J. King	Replaced pin on left quick tach cylinder and turned around right side. Tightened left grab handle on loader frame. Cleaned dirt out of quick tach. Inspect leak at flywheel housing.
1/26/2015	Kyle J. King	Brought unit in and dropped belly pans and front hood. Cleaned dirt out. Cleaned garabage out of cab. Looked unit over for repairs.
1/23/2015	Eric P. Nichols	Diagnosed tilt cylinder. Found position sensor not changing with movement of rod. Function being locked out when arms were raised beyond a certain point.

# Maintenance Work Order

**Work Order:** 17519  
**Priority:** Normal  
**Due Date:**

**Scheduling:**

**Status:** Closed  
**Status Date:** 12/22/2014

Mechanic Name	Schedule Date	Work Complete?
Christopher J. Murano	12/16/2014	<input checked="" type="checkbox"/>
Douglas A. Nelson	12/16/2014	<input checked="" type="checkbox"/>

Equipment ID: 22-026	Description: Cat 963D Track Loader
Work Order Job:	VIN #
Current Job: 24-R137	Serial # LCS02190
Current Location: 24-R137	License Plate #
Equipment Foreman:	Make: Cat
Work Order Foreman:	Model: 963D
	Carrier Name:

Meter Reading: Hours: 1500 on 12/16/2014 by CJ Murano  
 Odometer: on by  
 Last Hour Service (Lifetime): on  
 Last Odometer Service (Lifetime): on

Problem Description: PM1/250hr.

**Labor Items:**

Work Code	Item Code	ST	OT	DT	
Perform	26 - PM / Service:PM's Hours:PM1/250		5.00	0.00	0.00

**Parts List:**

Part Num	Name	UOM	Qty Used	
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**Cost Ledger:**

Type	Ref Num	Description	Estimated Cost	
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**Reconciled Purchases:**

Part Num	Description	Invoice #	Ref #	Qty Used	
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**Notes:**

# Maintenance Work Order

**Work Order:** 17279  
**Priority:** Normal  
**Due Date:**

**Scheduling:**

**Status:** Closed  
**Status Date:** 12/3/2014

Mechanic Name	Schedule Date	Work Complete?
Eric P. Nichols	11/25/2014	<input checked="" type="checkbox"/>

Equipment ID: 22-026	Description: Cat 963D Track Loader
Work Order Job:	VIN #
Current Job: 24-R137	Serial # LCS02190
Current Location: 24-R137	License Plate #
Equipment Foreman:	Make: Cat
Work Order Foreman:	Model: 963D
	Carrier Name:

Meter Reading: Hours: 1402 on 12/2/2014 by Kraig L. Kuhse  
 Odometer: on by  
 Last Hour Service (Lifetime): on  
 Last Odometer Service (Lifetime): on

**Problem Description:** Quick attach hose broke off.

**Labor Items:**

Work Code	Item Code	ST	OT	DT	
Replace	14 - Hydraulic System:Quick Attach Cylinder, Hose, Valve, Wiring		1.25	0.00	0.00

**Parts List:**

Part Num	Name	UOM	Qty Used	
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**Cost Ledger:**

Type	Ref Num	Description	Estimated Cost
Parts		Invoice #: pc501038028, Item Description: Hose As, Vendor Name: Ziegler, Inc.	\$0.00

**Reconciled Purchases:**

Part Num	Description	Invoice #	Ref #	Qty Used	
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# Maintenance Work Order

**Work Order:** 17279  
**Priority:** Normal  
**Due Date:**

**Notes:**

11/25/2014 Eric P. Nichols Replaced quick attach hoses. Went back to factory length, but added cloth armor to hold hoses together.

# Maintenance Work Order

**Work Order:** 17002  
**Priority:** Normal  
**Due Date:**

**Scheduling:**

**Status:** Closed  
**Status Date:** 11/12/2014

Mechanic Name	Schedule Date	Work Complete?
Christopher J. Murano	11/6/2014	<input checked="" type="checkbox"/>

Equipment ID: 22-026	Description: Cat 963D Track Loader
Work Order Job:	VIN #
Current Job: 24-R137	Serial # LCS02190
Current Location: 24-R137	License Plate #
Equipment Foreman:	Make: Cat
Work Order Foreman:	Model: 963D
	Carrier Name:

Meter Reading: Hours: 1214 on 11/6/2014 by CJ Murano  
 Odometer: on by  
 Last Hour Service (Lifetime): on  
 Last Odometer Service (Lifetime): on

Problem Description: PM3/1000hr.

**Labor Items:**

Work Code	Item Code	ST	OT	DT	
Perform	26 - PM / Service:PM's Hours:PM3/1,000		3.00	0.00	0.00

**Parts List:**

Part Num	Name	UOM	Qty Used	
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**Cost Ledger:**

Type	Ref Num	Description	Estimated Cost	
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**Reconciled Purchases:**

Part Num	Description	Invoice #	Ref #	Qty Used	
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**Notes:**

11/6/2014 Christopher J. Murano Adjusted both tracks.

# Maintenance Work Order

**Work Order:** 16834  
**Priority:** Normal  
**Due Date:**

**Scheduling:**

**Status:** Closed  
**Status Date:** 11/5/2014

Mechanic Name	Schedule Date	Work Complete?
Eric P. Nichols	10/27/2014	<input checked="" type="checkbox"/>

Equipment ID: 22-026	Description: Cat 963D Track Loader
Work Order Job:	VIN #
Current Job: 24-R137	Serial # LCS02190
Current Location: 24-R137	License Plate #
Equipment Foreman:	Make: Cat
Work Order Foreman:	Model: 963D
	Carrier Name:

Meter Reading: Hours: 1192 on 11/4/2014 by Kraig L. Kuhse  
 Odometer: on by  
 Last Hour Service (Lifetime): on  
 Last Odometer Service (Lifetime): on

**Problem Description:** Quick coupler hose fitting broke off.

**Labor Items:**

Work Code	Item Code	ST	OT	DT	
Parts Delivery or Pickup	14 - Hydraulic System:Quick Attach Cylinder, Hose, Valve, Wiring		0.50	0.00	0.00
Replace	14 - Hydraulic System:Quick Attach Cylinder, Hose, Valve, Wiring		1.00	0.00	0.00

**Parts List:**

Part Num	Name	UOM	Qty Used	
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**Cost Ledger:**

Type	Ref Num	Description	Estimated Cost
Parts		Invoice #: PC501032332, Item Description: Couplings, CM Hoses, Seal Guar, Vendor Name: Ziegler, Inc.	\$0.00

**Reconciled Purchases:**

Part Num	Description	Invoice #	Ref #	Qty Used	
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# Maintenance Work Order

**Work Order:** 16834  
**Priority:** Normal  
**Due Date:**

Notes:

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10/28/2014 Eric P. Nichols Replaced hoses to quick coupler. Factory hoses too long, had hoses made 3 inches shorter so they won't drag on ground when bucket is racked all the way back.

# Maintenance Work Order

**Work Order:** 16162  
**Priority:** Normal  
**Due Date:**

**Scheduling:**

**Status:** Closed  
**Status Date:** 10/14/2014

Mechanic Name	Schedule Date	Work Complete?
Kyle J. King	9/10/2014	<input checked="" type="checkbox"/>
Christopher J. Murano	10/2/2014	<input checked="" type="checkbox"/>
Eric P. Nichols	10/8/2014	<input checked="" type="checkbox"/>

Equipment ID:	22-026	Description:	Cat 963D Track Loader
Work Order Job:		VIN #	
Current Job:	24-R137	Serial #	LCS02190
Current Location:	24-R137	License Plate #	
Equipment Foreman:		Make:	Cat
Work Order Foreman:		Model:	963D
		Carrier Name:	

Meter Reading: Hours: 985 on 10/13/2014 by Kraig L. Kuhse  
 Odometer: on by  
 Last Hour Service (Lifetime): on  
 Last Odometer Service (Lifetime): on

**Problem Description:** Machine has load squeal when lifting heavy load and tracking. Adjust tracks. Pin fell out of quick coupler cylinder.

**Labor Items:**

Work Code	Item Code	ST	OT	DT	
Adjust	17 - Undercarriage:Track Adjustment		0.50	0.00	0.00
Inspect	14 - Hydraulic System		1.00	0.00	0.00
Repair	25 - Attachments:Quick Attach for Bucket / Attachment		1.00	0.00	0.00

**Parts List:**

Part Num	Name	UOM	Qty Used	
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**Cost Ledger:**

Type	Ref Num	Description	Estimated Cost
Parts		Invoice #: PC501029310, Item Description: Cotter Pin, Vendor Name: Ziegler, Inc.	\$0.00
Parts		Invoice #: PR500104239G, Item Description: Pin, Vendor Name: Ziegler, Inc.	\$0.00

# Maintenance Work Order

**Work Order:** 16162  
**Priority:** Normal  
**Due Date:**

## Reconciled Purchases:

Part Num	Description	Invoice #	Ref #	Qty Used	
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## Notes:

10/9/2014	Eric P. Nichols	Replaced quick attach cylinder pin.			
9/10/2014	Kyle J. King	Inspected unit. Noise happens when tracking and lifting a heavy load to the point where bucket starts to cam over to level out. Noise coming from under right side of cab. Doesn't happen every time but does happen often when warm.			

# Maintenance Work Order

**Work Order:** 16505  
**Priority:** Normal  
**Due Date:**

**Scheduling:**

**Status:** Closed  
**Status Date:** 10/6/2014

Mechanic Name	Schedule Date	Work Complete?
Christopher J. Murano	10/4/2014	<input checked="" type="checkbox"/>

Equipment ID: 22-026	Description: Cat 963D Track Loader
Work Order Job:	VIN #
Current Job: 24-R137	Serial # LCS02190
Current Location: 24-R137	License Plate #
Equipment Foreman:	Make: Cat
Work Order Foreman:	Model: 963D
	Carrier Name:

Meter Reading: Hours: 902 on 10/4/2014 by CJ Murano  
 Odometer: on by  
 Last Hour Service (Lifetime): on  
 Last Odometer Service (Lifetime): on

Problem Description: PM1/250hr.

**Labor Items:**

Work Code	Item Code	ST	OT	DT	
Perform	26 - PM / Service:PM's Hours:PM1/250		4.00	0.00	0.00

**Parts List:**

Part Num	Name	UOM	Qty Used	
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**Cost Ledger:**

Type	Ref Num	Description	Estimated Cost	
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**Reconciled Purchases:**

Part Num	Description	Invoice #	Ref #	Qty Used	
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**Notes:**

10/4/2014 Christopher J. Murano Washed windows off. Machine needs washed off has flyash all over it.

# Maintenance Work Order

**Work Order:** 16414  
**Priority:** Normal  
**Due Date:**

**Scheduling:**

**Status:** Closed  
**Status Date:** 10/6/2014

Mechanic Name	Schedule Date	Work Complete?
Christopher J. Murano	9/29/2014	<input checked="" type="checkbox"/>

Equipment ID: 22-026	Description: Cat 963D Track Loader
Work Order Job:	VIN #
Current Job: 24-R137	Serial # LCS02190
Current Location: 24-R137	License Plate #
Equipment Foreman:	Make: Cat
Work Order Foreman:	Model: 963D
	Carrier Name:

Meter Reading: Hours: 912 on 10/5/2014 by Kraig L. Kuhse  
 Odometer: on by  
 Last Hour Service (Lifetime): on  
 Last Odometer Service (Lifetime): on

**Problem Description:** Blew out cab and air filters in flyash.

**Labor Items:**

Work Code	Item Code	ST	OT	DT	
Clean	10 - Inspection / Cleaning:Clean Out Cab Filter, Condenser, Radiator		0.50	0.00	0.00

**Parts List:**

Part Num	Name	UOM	Qty Used	
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**Cost Ledger:**

Type	Ref Num	Description	Estimated Cost	
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**Reconciled Purchases:**

Part Num	Description	Invoice #	Ref #	Qty Used	
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# Maintenance Work Order

**Work Order:** 16414  
**Priority:** Normal  
**Due Date:**

Notes:

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# Maintenance Work Order

**Work Order:** 16120  
**Priority:** Normal  
**Due Date:**

**Scheduling:**

**Status:** Closed  
**Status Date:** 9/17/2014

Mechanic Name	Schedule Date	Work Complete?
Kyle J. King	9/6/2014	<input checked="" type="checkbox"/>

Equipment ID: 22-026	Description: Cat 963D Track Loader
Work Order Job:	VIN #
Current Job: 24-R137	Serial # LCS02190
Current Location: 24-R137	License Plate #
Equipment Foreman:	Make: Cat
Work Order Foreman:	Model: 963D
	Carrier Name:

Meter Reading: Hours: 730 on 9/16/2014 by Tim Kirkman  
 Odometer: on by  
 Last Hour Service (Lifetime): on  
 Last Odometer Service (Lifetime): on

**Problem Description:** Front wiper blade needs replaced.

**Labor Items:**

Work Code	Item Code	ST	OT	DT	
Replace	27 - Cab / Body:Windshield Wiper		0.50	0.00	0.00

**Parts List:**

Part Num	Name	UOM	Qty Used	
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**Cost Ledger:**

Type	Ref Num	Description	Estimated Cost
Parts		Invoice #: PC501022965, Item Description: Wiper Blades, Vendor Name: Ziegler, Inc.	\$0.00

**Reconciled Purchases:**

Part Num	Description	Invoice #	Ref #	Qty Used	
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**Notes:**

9/8/2014 Kyle J. King Found loader and replaced wiper blade.

# Maintenance Work Order

**Work Order:** 15931  
**Priority:** Normal  
**Due Date:**

**Scheduling:**

**Status:** Closed  
**Status Date:** 9/17/2014

Mechanic Name	Schedule Date	Work Complete?
Christopher J. Murano	8/25/2014	<input checked="" type="checkbox"/>

Equipment ID: 22-026	Description: Cat 963D Track Loader
Work Order Job:	VIN #
Current Job: 24-R137	Serial # LCS02190
Current Location: 24-R137	License Plate #
Equipment Foreman:	Make: Cat
Work Order Foreman:	Model: 963D
	Carrier Name:

Meter Reading: Hours: 596 on 8/25/2014 by CJ Murano  
 Odometer: on by  
 Last Hour Service (Lifetime): on  
 Last Odometer Service (Lifetime): on

Problem Description: PM2/500hr. Change both final drives, bad SOS.

**Labor Items:**

Work Code	Item Code	ST	OT	DT	
Perform	26 - PM / Service:PM's Hours:PM2/500		4.50	0.00	0.00
SOS	18 - Final Drive:Left Hand		1.00	0.00	0.00

**Parts List:**

Part Num	Name	UOM	Qty Used	
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**Cost Ledger:**

Type	Ref Num	Description	Estimated Cost	
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**Reconciled Purchases:**

Part Num	Description	Invoice #	Ref #	Qty Used	
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# Maintenance Work Order

**Work Order:** 15931  
**Priority:** Normal  
**Due Date:**

**Notes:**

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- 9/9/2014 Christopher J. Murano Changed left final drive at 677 HRS.
- 8/25/2014 Christopher J. Murano Changed right final smelled burnt and washed the machine.

# Maintenance Work Order

**Work Order:** 15795  
**Priority:** Normal  
**Due Date:**

**Scheduling:**

**Status:** Closed  
**Status Date:** 8/20/2014

Mechanic Name	Schedule Date	Work Complete?
Eric P. Nichols	8/13/2014	<input checked="" type="checkbox"/>

Equipment ID: 22-026	Description: Cat 963D Track Loader
Work Order Job:	VIN #
Current Job: 24-R137	Serial # LCS02190
Current Location: 24-R137	License Plate #
Equipment Foreman:	Make: Cat
Work Order Foreman:	Model: 963D
	Carrier Name:

Meter Reading: Hours: 551 on 8/19/2014 by Kraig L. Kuhse  
 Odometer: on by  
 Last Hour Service (Lifetime): on  
 Last Odometer Service (Lifetime): on

**Problem Description:** Quick coupler hose blown.

**Labor Items:**

Work Code	Item Code	ST	OT	DT	
Replace	14 - Hydraulic System:Quick Attach Cylinder, Hose, Valve, Wiring		1.50	0.00	0.00

**Parts List:**

Part Num	Name	UOM	Qty Used	
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**Cost Ledger:**

Type	Ref Num	Description	Estimated Cost
Parts		Invoice #: PR500102175, Item Description: Hose, Vendor Name: Ziegler, Inc.	\$0.00
Parts		Invoice #: PC501018726, Item Description: Hose As, Vendor Name: Ziegler, Inc.	\$0.00

**Reconciled Purchases:**

Part Num	Description	Invoice #	Ref #	Qty Used	
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# Maintenance Work Order

**Work Order:** 15795  
**Priority:** Normal  
**Due Date:**

Notes:

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8/14/2014      Eric P. Nichols      Removed hoses. Installed new hoses & adjusted routing. Zip tied hoses together.

# Maintenance Work Order

**Work Order:** 15437  
**Priority:** Normal  
**Due Date:**

**Scheduling:**

**Status:** Closed  
**Status Date:** 8/12/2014

Mechanic Name	Schedule Date	Work Complete?
Eric P. Nichols	7/21/2014	<input checked="" type="checkbox"/>

Equipment ID: 22-026	Description: Cat 963D Track Loader
Work Order Job:	VIN #
Current Job: 24-R137	Serial # LCS02190
Current Location: 24-R137	License Plate #
Equipment Foreman:	Make: Cat
Work Order Foreman:	Model: 963D
	Carrier Name:

Meter Reading: Hours: 504 on 8/11/2014 by Tim Kirkman  
 Odometer: on by  
 Last Hour Service (Lifetime): on  
 Last Odometer Service (Lifetime): on

**Problem Description:** Quick coupler cylinder pin missing. Implements and A/C quit working, Ziegler warranty.

**Labor Items:**

Work Code	Item Code	ST	OT	DT	
Diagnose	14 - Hydraulic System:Quick Attach Cylinder, Hose, Valve, Wiring		1.50	0.00	0.00
Inspect	25 - Attachments:Quick Attach for Bucket / Attachment		0.75	0.00	0.00
Repair	14 - Hydraulic System:Quick Attach Cylinder, Hose, Valve, Wiring		0.50	0.00	0.00

**Parts List:**

Part Num	Name	UOM	Qty Used	
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**Cost Ledger:**

Type	Ref Num	Description	Estimated Cost
Parts		Invoice #: PC501014688, Item Description: Cotter Pin, Pin, Vendor Name: Ziegler, Inc.	\$0.00

**Reconciled Purchases:**

Part Num	Description	Invoice #	Ref #	Qty Used	
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# Maintenance Work Order

**Work Order:** 15437  
**Priority:** Normal  
**Due Date:**

**Notes:**

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8/5/2014	Eric P. Nichols	Replaced pin for quick attach cylinder.
7/21/2014	Eric P. Nichols	Inspected quick attach & ordered parts.

# Maintenance Work Order

**Work Order:** 15217  
**Priority:** Normal  
**Due Date:**

**Scheduling:**

**Status:** Closed  
**Status Date:** 7/9/2014

Mechanic Name	Schedule Date	Work Complete?
Christopher J. Murano	7/3/2014	<input checked="" type="checkbox"/>

Equipment ID: 22-026	Description: Cat 963D Track Loader
Work Order Job:	VIN #
Current Job: 24-R137	Serial # LCS02190
Current Location: 24-R137	License Plate #
Equipment Foreman:	Make: Cat
Work Order Foreman:	Model: 963D
	Carrier Name:

Meter Reading: Hours: 301 on 7/3/2014 by CJ Murano  
 Odometer: on by  
 Last Hour Service (Lifetime): on  
 Last Odometer Service (Lifetime): on

Problem Description: PM1/250hr.

**Labor Items:**

Work Code	Item Code	ST	OT	DT	
Perform	26 - PM / Service:PM's Hours:PM1/250		3.00	0.00	0.00

**Parts List:**

Part Num	Name	UOM	Qty Used	
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**Cost Ledger:**

Type	Ref Num	Description	Estimated Cost	
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**Reconciled Purchases:**

Part Num	Description	Invoice #	Ref #	Qty Used	
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**Notes:**

7/3/2014 Christopher J. Murano Right and left final smelled burnt. Had alot of sludge on the magnetic plugs.

# Maintenance Work Order

**Work Order:** 14823  
**Priority:** Normal  
**Due Date:**

**Scheduling:**

**Status:** Closed  
**Status Date:** 6/10/2014

Mechanic Name	Schedule Date	Work Complete?
Kyle J. King	6/2/2014	<input checked="" type="checkbox"/>

Equipment ID: 22-026	Description: Cat 963D Track Loader
Work Order Job:	VIN #
Current Job: 24-R137	Serial # LCS02190
Current Location: 24-R137	License Plate #
Equipment Foreman:	Make: Cat
Work Order Foreman:	Model: 963D
	Carrier Name:

Meter Reading: Hours: 155 on 6/9/2014 by Tim Kirkman  
 Odometer: on by  
 Last Hour Service (Lifetime): on  
 Last Odometer Service (Lifetime): on

**Problem Description:** Top off hyd oil from leaking oring that Ziegler replaced.

**Labor Items:**

Work Code	Item Code	ST	OT	DT	
Add Fluid	14 - Hydraulic System:Hydraulic Oil		0.50	0.00	0.00

**Parts List:**

Part Num	Name	UOM	Qty Used	
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**Cost Ledger:**

Type	Ref Num	Description	Estimated Cost	
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**Reconciled Purchases:**

Part Num	Description	Invoice #	Ref #	Qty Used	
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**Notes:**

6/2/2014 Kyle J. King Topped off fluid.

# Maintenance Work Order

**Work Order:** 14893  
**Priority:** Normal  
**Due Date:**

**Scheduling:**

**Status:** Closed  
**Status Date:** 6/10/2014

Mechanic Name	Schedule Date	Work Complete?
Christopher J. Murano	6/6/2014	<input checked="" type="checkbox"/>
Mark E. McNaughton	6/6/2014	<input checked="" type="checkbox"/>

Equipment ID: 22-026	Description: Cat 963D Track Loader
Work Order Job:	VIN #
Current Job: 24-R137	Serial # LCS02190
Current Location: 24-R137	License Plate #
Equipment Foreman:	Make: Cat
Work Order Foreman:	Model: 963D
	Carrier Name:

Meter Reading: Hours: 155 on 6/9/2014 by Tim Kirkman  
 Odometer: on by  
 Last Hour Service (Lifetime): on  
 Last Odometer Service (Lifetime): on

**Problem Description:** Replaced cat eng. oil filter due to factory defect. Replaced with Donaldson (P550920). Top oil off.

**Labor Items:**

Work Code	Item Code	ST	OT	DT	
Replace	11 - Engine:Engine Oil Filter		1.00	0.00	0.00

**Parts List:**

Part Num	Name	UOM	Qty Used	
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**Cost Ledger:**

Type	Ref Num	Description	Estimated Cost	
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**Reconciled Purchases:**

Part Num	Description	Invoice #	Ref #	Qty Used	
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# Maintenance Work Order

**Work Order:** 14893  
**Priority:** Normal  
**Due Date:**

**Notes:**

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6/6/2014 Christopher J. Murano Had a German filter on it. Cut open cat filter and Anti drain back rubber flap was cut and the piece was laying on top of flap.



# Maintenance Work Order

**Work Order:** 14632  
**Priority:** Normal  
**Due Date:**

Notes:

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- 5/17/2014 Michael C. Ritz Added typical hard surface to the bucket and added weld on unit numbers and Elder to the bucket and forks. Touched up paint and returned to the wash bay.
- 5/16/2014 Kyle J. King Installed decals padlocks and master hasp. Put new spade in new spade holder.

# ELDER EXCAVATING

PM SERVICE # **22-026**

DATE: 12/17/15  
~~2/12/2015~~

Microsoft ✓

SERVICE TECH: CJT Tim

CAT 963D

LAST PM DATE: 11/10/15

LOCATION: 2947

LAST PM HRS: 2680

HOUR METER: 2947

LC502367

ENG OIL HRS: 225

Comments Done ✓	Description of Work Performed	Part Number	Quantity	Description
	<b>Change Engine Oil</b>			Engine Oil
	-Change Engine Oil Filter		1	Oil filter
	<b>Change Fuel Filters- Primary</b>		1	Fuel Filter
	-Change Secondary		1	Primary Fuel
	-Clean primary fuel filter screen, Change Seal	8H-2778	1	Seal
	<b>Change Outer Air Filter</b>		1	Outer Air
	-Check Inner Air Filter		1	Inner Air
	<b>Check Pivot Shaft Oil Level**</b>	TDTO 30W		Trans Oil
	<b>Check Track Adjustment</b>	No.2 Type M	2 Inches	Slack
	<b>Lubricate Fan Bearing and Belt Idler</b>	No.2 Type M		Grease
	<b>Inspect/ Adjust Belts</b>			
	<b>Lubricate Track Idlers</b>	No.2 Type M	4 Fittings	Grease
	<b>Lubricate Left and Right Equalizer Bar</b>	No.2 Type M	2 Fittings	Grease
	<b>Check Batteries</b>			
	-Check water level (Fill)/ Clean Post and terminals			
	<b>Check Cab Air Filters (Change if Necessary)</b>			Cab Air Filters
	<b>Drain Water and Sediment in Fuel Tank</b>			
	<b>Perform walk around inspection</b>			
	-Machine			
	-Bucket and Arms			
	-Hydraulic System			
	-Engine Compartment			
	-Operators Compartment			
	-Engine Air Intake			
	-Cooling System			
	-Final Drives			
	-Safety Equipment (First Aid Kits, Fire Ext.)			
	<b>Check all Fluid Levels...</b>			
	Engine Crankcase			Eng Oil
	Transmission			Trans Oil
	Hydraulic Tank			Hydraulic Oil
	Final Drives (Each)			Summer Oil
				Winter Oil
	Cooling System			Premix Coolant
	Fuel Tank			Fuel

#22-197

*Curb 266-7765 / 209-8217*

\*Get S.O.S. on Every Oil Sample\*

\*\*Applies to 953B and 953C Models Only\*\*

Comments:

PM2/500hr.

- Save air filters -

- dog bone connector on bucket is looking like it is bending again

- adjusted tracks

- machine still in heavy fly ash

# ELDER EXCAVATING

PM SERVICE #

**22.026**

DATE: 11/10/15  
~~11/9/2015~~

LCS02190

C95C9

SERVICE TECH: CS + Tim

LAST PM DATE: 9/22/15 ✓

LOCATION: 963D

LAST PM HRS: 2352

HOOR METER: 2680

CAT

ENG OIL HRS: 295 450#

21716

Comments Done ✓	Description of Work Performed	Part Number	Quantity	Description
	Change Engine Oil	462-1171		Engine Oil
	-Change Engine Oil Filter		1	Oil filter
	Change Fuel Filters- Primary	326-1644	1	Fuel Filter
	-Change Secondary	306-9199	1	Primary Fuel
	-Clean primary fuel filter screen, Change Seal	8H-2778	1	Seal
	Change Outer Air Filter	319-0844	1	Outer Air
	-Check Inner Air Filter		1	Inner Air
	Check Pivot Shaft Oil Level**	TDTO 30W		Trans Oil
	Check Track Adjustment	No.2 Type M	2 Inches	Slack
	Lubricate Fan Bearing and Belt Idler	No.2 Type M		Grease
	Inspect/ Adjust Belts			
	Lubricate Track Idlers	No.2 Type M	4 Fittings	Grease
	Lubricate Left and Right Equalizer Bar	No.2 Type M	2 Fittings	Grease
	Check Batteries			
	-Check water level (Fill)/ Clean Post and terminals	2522-5001		
	Check Cab Air Filters (Change if Necessary)	252-5002		Cab Air Filters
	Drain Water and Sediment in Fuel Tank			
	Perform walk around inspection			
	-Machine			
	-Bucket and Arms			
	-Hydraulic System	209-8217		
	-Engine Compartment	266-7765		
	-Operators Compartment			
	-Engine Air Intake			
	-Cooling System			
	-Final Drives			
	-Safety Equipment (First Aid Kits, Fire Ext.)			
	Check all Fluid Levels...			
	Engine Crankcase			Eng Oil
	Transmission			Trans Oil
	Hydraulic Tank			Hydraulic Oil
	Final Drives (Each)			Summer Oil
				Winter Oil
	Cooling System			Premix Coolant
	Fuel Tank			Fuel

\*Get S.O.S. on Every Oil Sample\*

\*\*Applies to 953B and 953C Models Only\*\*

PM 1/250 hrs.

Comments:

DM4-2092 - Machine is in Fly Air - White

- Adjusted both tracks

- Oil viscosity thick and tacky

- Segments are polished

- Handle to get fuel door open bent up needs replaced

# ELDER EXCAVATING

PM SERVICE #

22-026 ✓

DATE: 9/22/2015

LCS02190  
9630

SERVICE TECH: \_\_\_\_\_

LAST PM DATE: 7-16-2015

LOCATION: \_\_\_\_\_

LAST PM HRS: 2092

HOUR METER: 2352

ENG OIL HRS: 248

Comments Done ✓	Description of Work Performed	Part Number	Quantity	Description
	<b>Change Engine Oil</b>	462-1171		Engine Oil
	-Change Engine Oil Filter		1	Oil filter
	<b>Change Fuel Filters- Primary</b>	326-1644	1	Fuel Filter
	-Change Secondary	306-9199	1	Primary Fuel
	-Clean primary fuel filter screen, Change Seal	8H-2778	1	Seal
	<b>Change Outer Air Filter</b>	319-0844	1	Outer Air
	-Check Inner Air Filter		1	Inner Air
	<b>Check Pivot Shaft Oil Level**</b>	TDTO 30W		Trans Oil
	<b>Check Track Adjustment</b>	No.2 Type M	2 Inches	Slack
	<b>Lubricate Fan Bearing and Belt Idler</b>	No.2 Type M		Grease
	<b>Inspect/ Adjust Belts</b>			
	<b>Lubricate Track Idlers</b>	No.2 Type M	4 Fittings	Grease
	<b>Lubricate Left and Right Equalizer Bar</b>	No.2 Type M	2 Fittings	Grease
	<b>Check Batteries</b>			
	-Check water level (Fill)/ Clean Post and terminals	252-501		
	<b>Check Cab Air Filters (Change if Necessary)</b>	252-502		Cab Air Filters
	<b>Drain Water and Sediment in Fuel Tank</b>			
	<b>Perform walk around inspection</b>			
	-Machine			
	-Bucket and Arms	209-8217		
	-Hydraulic System	266-7765		
	-Engine Compartment			
	-Operators Compartment			
	-Engine Air Intake			
	-Cooling System	2-16-8878		
	-Final Drives			
	-Safety Equipment (First Aid Kits, Fire Ext.)			
	<b>Check all Fluid Levels...</b>			
	Engine Crankcase			Eng Oil
	Transmission			Trans Oil
	Hydraulic Tank			Hydraulic Oil
	Final Drives (Each)			Summer Oil
				Winter Oil
	Cooling System			Premix Coolant
	Fuel Tank			Fuel

21055

\*Get S.O.S. on Every Oil Sample\*

\*\*Applies to 953B and 953C Models Only\*\*

Comments:

PM4/2000 lu.  
- Segments are almost to a point  
power washed machine

# ELDER EXCAVATING

PM SERVICE #

**22-026**

✓ Grims?  
Ross

DATE: 7/16/2015

SERVICE TECH: Tim Doug

CAT

963D

LC502190

LAST PM DATE: 5/4/15

LAST PM HRS: 1783

ENG OIL HRS: 269

LOCATION: 2092

HOUR METER: 2092

Comments Done ✓	Description of Work Performed	Part Number	Quantity	Description
	<b>Change Engine Oil</b>	462-1171		Engine Oil
	-Change Engine Oil Filter		1	Oil filter
	<b>Change Fuel Filters- Primary</b>	326-1644	1	Fuel Filter
	-Change Secondary	306-9199	1	Primary Fuel
	-Clean primary fuel filter screen, Change Seal 319-0844	8H-2778	1	Seal
	<b>Change Outer Air Filter</b>	252-5001	1	Outer Air
	-Check Inner Air Filter	252-5002	1	Inner Air
	<b>Check Pivot Shaft Oil Level**</b>	TDTO 30W		Trans Oil
	<b>Check Track Adjustment</b>	No.2 Type M	2 Inches	Slack
	<b>Lubricate Fan Bearing and Belt Idler</b>	No.2 Type M		Grease
	<b>Inspect/ Adjust Belts</b>			
	<b>Lubricate Track Idlers</b>	No.2 Type M	4 Fittings	Grease
	<b>Lubricate Left and Right Equalizer Bar</b>	No.2 Type M	2 Fittings	Grease
	<b>Check Batteries</b>			
	-Check water level (Fill)/ Clean Post and terminals			
	<b>Check Cab Air Filters (Change if Necessary)</b>			Cab Air Filters
	<b>Drain Water and Sediment in Fuel Tank</b>	209 8217		
	<b>Perform walk around inspection</b>	266-7765		
	-Machine			
	-Bucket and Arms			
	-Hydraulic System			
	-Engine Compartment			
	-Operators Compartment			
	-Engine Air Intake			
	-Cooling System			
	-Final Drives			
	-Safety Equipment (First Aid Kits, Fire Ext.)			
	<b>Check all Fluid Levels...</b>			
	Engine Crankcase			Eng Oil
	Transmission			Trans Oil
	Hydraulic Tank			Hydraulic Oil
	Final Drives (Each)			Summer Oil
				Winter Oil
	Cooling System			Premix Coolant
	Fuel Tank			Fuel

19920

2-16-88-38

\*Get S.O.S. on Every Oil Sample\*

\*\*Applies to 953B and 953C Models Only\*\*

Comments:

PMI/250hr.

- machine has open work order from Kyle - belly pan was wet from blow by - 309 hours on oil -

- Power Washed machine -

# ELDER EXCAVATING

PM SERVICE #

22-026

DATE: 5/14/15  
~~4/28/2015~~

mi/D

SERVICE TECH: CS + T

LAST PM DATE: 12/16/2014

LOCATION:

LAST PM HRS: 1500

HOOR METER: 1783

ENG OIL HRS: 257

Comments Done ✓	Description of Work Performed	Part Number	Quantity	Description
	<b>Change Engine Oil</b>			Engine Oil
	-Change Engine Oil Filter	462-1171	1	Oil filter
	<b>Change Fuel Filters- Primary</b>			Fuel Filter
	-Change Secondary	326-1644	1	Fuel Filter
	-Clean primary fuel filter screen, Change Seal	306-9199	1	Primary Fuel
		319/2848H-2778	1	Seal
	<b>Change Outer Air Filter</b>			Outer Air
	-Check Inner Air Filter	252-5001	1	Outer Air
		252-302	1	Inner Air
	<b>Check Pivot Shaft Oil Level**</b>	TDTO 30W		Trans Oil
	<b>Check Track Adjustment</b>	No.2 Type M	2 Inches	Slack
	<b>Lubricate Fan Bearing and Belt Idler</b>	No.2 Type M		Grease
	<b>Inspect/ Adjust Belts</b>			
	<b>Lubricate Track Idlers</b>	No.2 Type M	4 Fittings	Grease
	<b>Lubricate Left and Right Equalizer Bar</b>	No.2 Type M	2 Fittings	Grease
	<b>Check Batteries</b>			
	-Check water level (Fill)/ Clean Post and terminals			
	<b>Check Cab Air Filters (Change if Necessary)</b>			Cab Air Filters
	<b>Drain Water and Sediment in Fuel Tank</b>			
	<b>Perform walk around inspection</b>			
	-Machine			
	-Bucket and Arms			
	-Hydraulic System			
	-Engine Compartment			
	-Operators Compartment			
	-Engine Air Intake	CA - 209 - 8217 / 246 - 7765		
	-Cooling System			
	-Final Drives	2 16 - 8878		
	-Safety Equipment (First Aid Kits, Fire Ext.)			
	<b>Check all Fluid Levels...</b>			
	Engine Crankcase			Eng Oil
	Transmission			Trans Oil
	Hydraulic Tank			Hydraulic Oil
	Final Drives (Each)			Summer Oil
				Winter Oil
	Cooling System			Premix Coolant
	Fuel Tank			Fuel

\*Get S.O.S. on Every Oil Sample\*

\*\*Applies to 953B and 953C Models Only\*\*

Comments:

PM 2/500 hrs - Clean engine  
math - Take SOS of coolant.  
Adjusted both tracks

Change final drives - High dirt / non-

# ELDER EXCAVATING

PM SERVICE # **22-026**

DATE: 12/16/14  
2/15/2014

17519 KC  
micro ✓

SERVICE TECH: CS + DOUG

LAST PM DATE: 11/6/14

LOCATION: 1500

LAST PM HRS: 1214

HOUR METER: \_\_\_\_\_

ENG OIL HRS: 220286

Comments Done ✓	Description of Work Performed	Part Number	Quantity	Description
	<b>Change Engine Oil</b>	<b>462-1171</b>		Engine Oil
	-Change Engine Oil Filter		1	Oil filter
	<b>Change Fuel Filters- Primary</b>	<b>326-1644</b>	1	Fuel Filter
	-Change Secondary	<b>306-9199</b>	1	Primary Fuel
	-Clean primary fuel filter screen, Change Seal	<b>3109-270844</b>	1	Seal
	<b>Change Outer Air Filter</b>	<b>252-5001</b>	1	Outer Air
	-Check Inner Air Filter	<b>252-5062</b>	1	Inner Air
	<b>Check Pivot Shaft Oil Level**</b>	TDTO 30W		Trans Oil
	<b>Check Track Adjustment</b>	No.2 Type M	2 Inches	Slack
	<b>Lubricate Fan Bearing and Belt Idler</b>	No.2 Type M		Grease
	<b>Inspect/ Adjust Belts</b>			
	<b>Lubricate Track Idlers</b>	No.2 Type M	4 Fittings	Grease
	<b>Lubricate Left and Right Equalizer Bar</b>	No.2 Type M	2 Fittings	Grease
	<b>Check Batteries</b>			
	-Check water level (Fill)/ Clean Post and terminals			
	<b>Check Cab Air Filters (Change if Necessary)</b>			Cab Air Filters
	<b>Drain Water and Sediment in Fuel Tank</b>			
	<b>Perform walk around inspection</b>			
	-Machine			
	-Bucket and Arms			
	-Hydraulic System			
	-Engine Compartment			
	-Operators Compartment			
	-Engine Air Intake			
	-Cooling System			
	-Final Drives			
	-Safety Equipment (First Aid Kits, Fire Ext.)			
	<b>Check all Fluid Levels...</b>			
	Engine Crankcase			Eng Oil
	Transmission			Trans Oil
	Hydraulic Tank			Hydraulic Oil
	Final Drives (Each)			Summer Oil
				Winter Oil
	Cooling System			Premix Coolant
	Fuel Tank			Fuel

*Cab - 209-8212 / 266-7765*

\*Get S.O.S. on Every Oil Sample\*  
\*\*Applies to 953B and 953C Models Only\*\*

Comments: PM 1/250 hr.

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# ELDER EXCAVATING

PM SERVICE # **22-026**

DATE: 11/6/14  
~~0/04/2014~~

#1702 <sup>micro</sup> KC ✓

SERVICE TECH: CS Ryden 963

LAST PM DATE: 10/4/14

LOCATION:

LAST PM HRS: 902

HOOR METER: 1214 HRS

ENG OIL HRS: 250

Comments Done ✓	Description of Work Performed	Part Number	Quantity	Description
	<b>Change Engine Oil</b>	<u>462-1171</u>		Engine Oil
	-Change Engine Oil Filter		1	Oil filter
	<b>Change Fuel Filters- Primary</b>	<u>3267644</u>	1	Fuel Filter
	-Change Secondary	<u>306-9199</u>	1	Primary Fuel
	-Clean primary fuel filter screen, Change Seal	<u>31910844</u>	1	Seal
	<b>Change Outer Air Filter</b>		1	Outer Air
	-Check Inner Air Filter	<u>252-001</u> <u>252-002</u>	1	Inner Air
	<b>Check Pivot Shaft Oil Level**</b>	TDTO 30W		Trans Oil
	<b>Check Track Adjustment</b>	No.2 Type M	2 Inches	Slack
	<b>Lubricate Fan Bearing and Belt Idler</b>	No.2 Type M		Grease
	<b>Inspect/ Adjust Belts</b>			
	<b>Lubricate Track Idlers</b>	No.2 Type M	4 Fittings	Grease
	<b>Lubricate Left and Right Equalizer Bar</b>	No.2 Type M	2 Fittings	Grease
	<b>Check Batteries</b>			
	-Check water level (Fill)/ Clean Post and terminals			
	<b>Check Cab Air Filters (Change if Necessary)</b>			Cab Air Filters
	<b>Drain Water and Sediment in Fuel Tank</b>			
	<b>Perform walk around inspection</b>			
	-Machine			
	-Bucket and Arms			
	-Hydraulic System	<u>209-8217</u>		<u>266-7765</u>
	-Engine Compartment			
	-Operators Compartment			
	-Engine Air Intake			
	-Cooling System			
	-Final Drives	<u>16-8878</u>		<u>(2)</u>
	-Safety Equipment (First Aid Kits, Fire Ext.)			
	<b>Check all Fluid Levels...</b>			
	Engine Crankcase			Eng Oil
	Transmission			Trans Oil
	Hydraulic Tank			Hydraulic Oil
	Final Drives (Each)			Summer Oil
				Winter Oil
	Cooling System			Premix Coolant
	Fuel Tank			Fuel

\*Get S.O.S. on Every Oil Sample\*

\*\*Applies to 953B and 953C Models Only\*\*

Comments:

PM3/1000 hr. Replace  
trans / Hyd filters, clean breathers.  
Take SOS of coolant.

Adjusted both tracks

# ELDER EXCAVATING

PM SERVICE # 22-026  
 # 16505 MICRO ✓

DATE: 10/9/14  
~~10/12/2014~~

SERVICE TECH: CS

LAST PM DATE: 8-19-2014

LOCATION: 902

LAST PM HRS: 596

HOUR METER: \_\_\_\_\_

ENG OIL HRS: 264

Comments Done ✓	Description of Work Performed	Part Number	Quantity	Description
	<b>Change Engine Oil</b>	<u>418-</u>		Engine Oil
	-Change Engine Oil Filter		1	Oil filter
	<b>Change Fuel Filters- Primary</b>	<u>326-1644</u>	1	Fuel Filter
	-Change Secondary	<u>306-9199</u>	1	Primary Fuel
	-Clean primary fuel filter screen, Change Seal	<u>319-0844</u>	1	Seal
	<b>Change Outer Air Filter</b>	<u>252-5001</u>	1	Outer Air
	-Check Inner Air Filter	<u>252-5002</u>	1	Inner Air
	<b>Check Pivot Shaft Oil Level**</b>	TDTO 30W		Trans Oil
	<b>Check Track Adjustment</b>	No.2 Type M	2 Inches	Slack
	<b>Lubricate Fan Bearing and Belt Idler</b>	No.2 Type M		Grease
	<b>Inspect/ Adjust Belts</b>			
	<b>Lubricate Track Idlers</b>	No.2 Type M	4 Fittings	Grease
	<b>Lubricate Left and Right Equalizer Bar</b>	No.2 Type M	2 Fittings	Grease
	<b>Check Batteries</b>			
	-Check water level (Fill)/ Clean Post and terminals			
	<b>Check Cab Air Filters (Change if Necessary)</b>			Cab Air Filters
	<b>Drain Water and Sediment in Fuel Tank</b>			
	<b>Perform walk around inspection</b>			
	-Machine			
	-Bucket and Arms			
	-Hydraulic System			
	-Engine Compartment			
	-Operators Compartment			
	-Engine Air Intake			
	-Cooling System			
	-Final Drives			
	-Safety Equipment (First Aid Kits, Fire Ext.)			
	<b>Check all Fluid Levels...</b>			
	Engine Crankcase			Eng Oil
	Transmission			Trans Oil
	Hydraulic Tank			Hydraulic Oil
	Final Drives (Each)			Summer Oil
				Winter Oil
	Cooling System			Premix Coolant
	Fuel Tank			Fuel

CA - 209 - 8217 / 266 - 7765

\*Get S.O.S. on Every Oil-Sample\*

\*\*Applies to 953B and 953C Models Only\*\*

Comments: PM1/250hr.

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# ELDER EXCAVATING

PM SERVICE # **22-026**

#15931 Penny Rosco

DATE: 8/19/2014

SERVICE TECH: \_\_\_\_\_

LAST PM DATE: \_\_\_\_\_

LOCATION: \_\_\_\_\_

LAST PM HRS: \_\_\_\_\_

HOUR METER: 596 HRS

ENG OIL HRS: \_\_\_\_\_

Comments Done ✓	Description of Work Performed	Part Number	Quantity	Description
	Change Engine Oil	462-1171		Engine Oil
	-Change Engine Oil Filter		1	Oil filter
	Change Fuel Filters- Primary	306-9199 326-1644	1	Fuel Filter
	-Change Secondary	319-0844	1	Primary Fuel
	-Clean primary fuel filter screen, Change Seal	8H-2778	1	Seal
	Change Outer Air Filter	252-5001	1	Outer Air
	-Check Inner Air Filter	252-5002	1	Inner Air
	Check Pivot Shaft Oil Level**	TDTO 30W		Trans Oil
	Check Track Adjustment	No.2 Type M	2 Inches	Slack
	Lubricate Fan Bearing and Belt Idler	No.2 Type M		Grease
	Inspect/ Adjust Belts			
	Lubricate Track Idlers	No.2 Type M	4 Fittings	Grease
	Lubricate Left and Right Equalizer Bar	No.2 Type M	2 Fittings	Grease
	Check Batteries			
	-Check water level (Fill)/ Clean Post and terminals			
	Check Cab Air Filters (Change if Necessary)			Cab Air Filters
	Drain Water and Sediment in Fuel Tank			
	Perform walk around inspection			
	-Machine			
	-Bucket and Arms			
	-Hydraulic System			
	-Engine Compartment			
	-Operators Compartment			
	-Engine Air Intake	CA- 209-8217	266-7765	
	-Cooling System			
	-Final Drives			
	-Safety Equipment (First Aid Kits, Fire Ext.)			
	Check all Fluid Levels...			
	Engine Crankcase			Eng Oil
	Transmission			Trans Oil
	Hydraulic Tank			Hydraulic Oil
	Final Drives (Each)			Summer Oil
				Winter Oil
	Cooling System			Premix Coolant
	Fuel Tank			Fuel

\*Get S.O.S. on Every Oil Sample\*

\*\*Applies to 953B and 953C Models Only\*\*

Comments: PM2/500hr - clean engine marks  
Take SOS of coolant.  
Right final smelled burnt.

Change final drive oil - burnt smell. on Buck log.

# ELDER EXCAVATING

PM SERVICE # **22-026**

DATE: 7/13/14  
~~6/28/2014~~

Ankney ICC  
K15217 ✓

SERVICE TECH: C S + Ryder

LAST PM DATE: 4/1/2014

LOCATION: 301

LAST PM HRS: 0

HOUR METER: 301

ENG OIL HRS: 264

Comments Done ✓	Description of Work Performed	Part Number	Quantity	Description
	<b>Change Engine Oil</b>			Engine Oil
	-Change Engine Oil Filter	<u>26A-8325</u>	1	Oil filter
	<b>Change Fuel Filters- Primary</b>	<u>326-164</u>		
	-Change Secondary	<u>319-0844</u>	1	Fuel Filter
	-Clean primary fuel filter screen, Change Seal	<u>306-9199</u>	1	Primary Fuel
		8H-2778	1	Seal
	<b>Change Outer Air Filter</b>	<u>252-5001</u>	1	Outer Air
	-Check Inner Air Filter	<u>252-5002</u>	1	Inner Air
	<b>Check Pivot Shaft Oil Level**</b>	TDTO 30W		Trans Oil
	<b>Check Track Adjustment</b>	No.2 Type M	2 Inches	Slack
	<b>Lubricate Fan Bearing and Belt Idler</b>	No.2 Type M		Grease
	<b>Inspect/ Adjust Belts</b>			
	<b>Lubricate Track Idlers</b>	No.2 Type M	4 Fittings	Grease
	<b>Lubricate Left and Right Equalizer Bar</b>	No.2 Type M	2 Fittings	Grease
	<b>Check Batteries</b>			
	-Check water level (Fill)/ Clean Post and terminals			
	<b>Check Cab Air Filters (Change if Necessary)</b>			Cab Air Filters
	<b>Drain Water and Sediment in Fuel Tank</b>			
	<b>Perform walk around inspection</b>			
	-Machine			
	-Bucket and Arms			
	-Hydraulic System			
	-Engine Compartment			
	-Operators Compartment			
	-Engine Air Intake			
	-Cooling System			
	-Final Drives			
	-Safety Equipment (First Aid Kits, Fire Ext.)			
	<b>Check all Fluid Levels...</b>			
		Engine Crankcase		Eng Oil
		Transmission		Trans Oil
		Hydraulic Tank		Hydraulic Oil
		Final Drives (Each)		Summer Oil
				Winter Oil
		Cooling System		Premix Coolant
		Fuel Tank		Fuel

CA - 209-8217 / 266-7765

\*Get S.O.S. on Every Oil Sample\*

\*\*Applies to 953B and 953C Models Only\*\*

Comments: Right and Left final Sanelled burnt,  
plugs had alot of sludge on them-



**RADIATOR**

**EQUIP NUM: 22-026**

**SERIAL NUMBER: LCS02190**

**CAT 963D**

**No Action Required**

**Interp By: LAB**  
**Interpreted On: 16-Jul-25**

**E500-55197-7004**

SAMPLE SHIP TIME (days) : 5

**ELDER CORPORATION**

RECEIVED DATE: 15-Jul-25

ALL LEVEL 1 TESTS APPEAR NORMAL. NO ACTION REQUIRED AT THIS TIME. RESAMPLE AT THE NORMAL INTERVAL.

**SAMPLE INFORMATION**

	11-Jul-25	20-Dec-23	08-May-23	09-Sep-22
Sampled Date	11-Jul-25	20-Dec-23	08-May-23	09-Sep-22
Sample Id	E500-55197-7004	E500-53356-7001	E500-53130-7008	E500-52255-7018
Lab Date	16-Jul-25	22-Dec-23	10-May-23	12-Sep-22
Meter [Hr]	13501	13113	12709	12300
Meter On Fluid				12300
Fluid Brand	CHEVRON	CHEVRON	CHEVRON	CHEVRON
Fluid Weight				
Fluid Type	DELO 50/50	DELO 50/50	DELO 50/50	DELO 50/50
Fluid Change	N	N	N	N
Filter Change		N		N
Total Fluid Added	0	0	0	0

**PREVIOUS SAMPLE**

ALL LEVEL 1 TESTS APPEAR NORMAL. NO ACTION REQUIRED AT THIS TIME.  
RESAMPLE AT THE NORMAL INTERVAL.

For additional sample history, go to: S.O.S WEB

**PHYSICAL CHARACTERISTICS**

		11-Jul-25	20-Dec-23	08-May-23	09-Sep-22
<b>ADDITIONAL ANALYTES (PPM)</b>					
PO4	Phosphate	101	98	190	34
TH	Total Hardness	0	0	0	2
<b>REFRACTIVE INDEX</b>					
GL	Glycol (%)	50	50	49	49
FP	Freeze Point (°C)	-37	-37	-36	-36
BP	Boil Point (°C)	107	107	107	107

**CORROSION LEVELS/ CHEMISTRY**

		11-Jul-25	20-Dec-23	08-May-23	09-Sep-22
<b>ELEMENTAL ANALYSIS (PPM)</b>					
Cu	Copper	3	3	3	4
Fe	Iron	0	0	0	0
Pb	Lead	1	1	0	0
Sn	Tin	0	0	0	0
Al	Aluminum	0	0	0	0
Zn	Zinc	0	0	0	0
Na	Sodium	3567	3512	3373	3285
K	Potassium	438	437	449	376
Mo	Molybdenum	462	433	443	516

**pH**

		11-Jul-25	20-Dec-23	08-May-23	09-Sep-22
pH	pH	8.0	8.2	8.2	8.0

**CONDUCTIVITY (µS/cm)**

		11-Jul-25	20-Dec-23	08-May-23	09-Sep-22
CON	Conductivity	4400	4334	4169	4202

**PHYSICAL**

		11-Jul-25	20-Dec-23	08-May-23	09-Sep-22
Oil	Oil	none	none	none	none
Foam	Foam	norm	norm	norm	norm

**PHYSICAL CHARACTERISTICS**

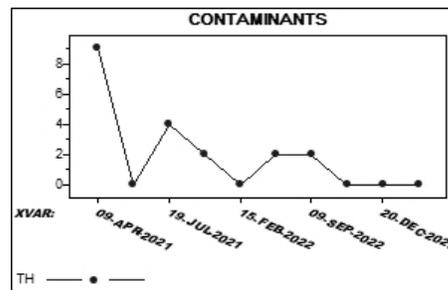
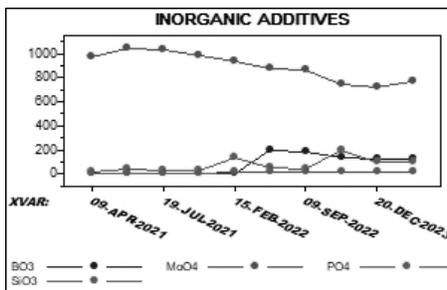
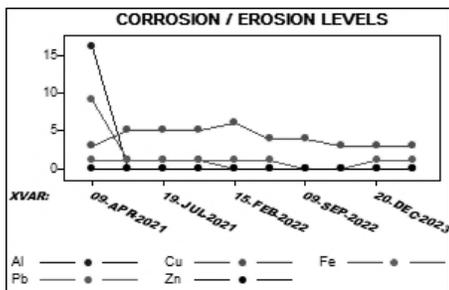
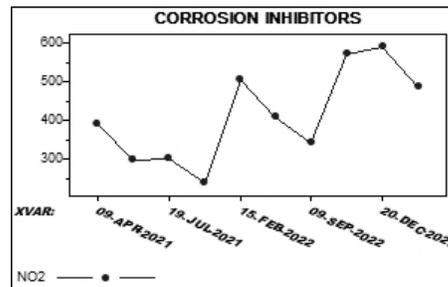
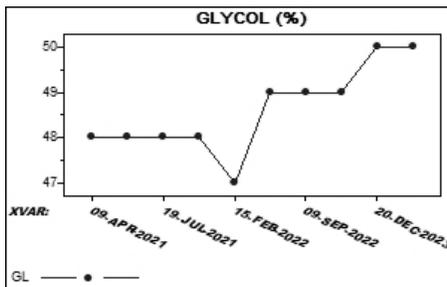
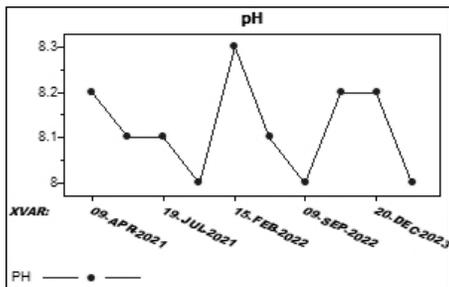
		11-Jul-25	20-Dec-23	08-May-23	09-Sep-22
<b>PHYSICAL</b>					
Color	Color	red	red	red	red
App	Appearance	clear	clear	clear	clear
Odor	Odor	norm	norm	norm	norm
PAmt	Precip Amount	none	none	none	none

**ANION ANALYSIS (PPM)**

		11-Jul-25	20-Dec-23	08-May-23	09-Sep-22
NO2	Nitrite	486	588	570	340

**ADDITIONAL ANALYTES (PPM)**

		11-Jul-25	20-Dec-23	08-May-23	09-Sep-22
MoO4	Molybdate	770	722	738	860
BO3	Borate	125	125	136	185
SiO3	Silicate	11	14	14	19



Report Comment

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**ENGINE**

**EQUIP NUM: 22-026**

**SERIAL NUMBER: LCS02190**

**CAT 963D**

**No Action Required**

**E500-55197-0048**

SAMPLE SHIP TIME (days) : 5

**ELDER CORPORATION**

RECEIVED DATE: 15-Jul-25

**Interp By: Chris Gillis**  
**Interpreted On: 16-Jul-25**

RESULTS OF LATEST SAMPLE INDICATE ELEMENTS TESTED DIDN'T EXCEED NORMAL TRENDS FOR THIS COMPARTMENT . NO EXCESSIVE WEAR IS INDICATED AT THIS TIME. CONTINUE TO MONITOR COMPARTMENT BY SAMPLING AT RECOMMENDED INTERVALS.

**SAMPLE INFORMATION**

	11-Jul-25	10-Sep-24	20-Dec-23	10-Jul-23
Sampled Date	11-Jul-25	10-Sep-24	20-Dec-23	10-Jul-23
Sample Id	E500-55197-0048	E500-54256-0017	E500-53356-0013	E500-53193-0024
Lab Date	16-Jul-25	12-Sep-24	22-Dec-23	12-Jul-23
Meter [Hr]	13501	13309	13113	12914
Meter On Fluid	192	196	199	205
Fluid Brand	CHEVRON	CHEVRON	CHEVRON	CHEVRON
Fluid Weight	15W-40	15W-40	15W-40	15W-40
Fluid Type				
Fluid Change	Y	Y	Y	Y
Filter Change	Y	Y	Y	Y
Total Fluid Added	0	0	0	0

**PREVIOUS SAMPLE**

RESULTS OF LATEST SAMPLE INDICATE ELEMENTS TESTED DIDN'T EXCEED NORMAL TRENDS FOR THIS COMPARTMENT. NO EXCESSIVE WEAR IS INDICATED AT THIS TIME. CONTINUE TO MONITOR COMPARTMENT BY SAMPLING AT RECOMMENDED INTERVALS.

For additional sample history, go to:

S.O.S WEB

**CONDITION / CONTAMINATION**

	11-Jul-25	10-Sep-24	20-Dec-23	10-Jul-23
<b>VISCOSITY (CENTISTOKES)</b>				
V100 Viscosity at 100 C	13.60	13.50	13.60	13.40

**INFRARED (UFM)**

	11-Jul-25	10-Sep-24	20-Dec-23	10-Jul-23
ST Soot	57	64	55	45
OXI Oxidation	15	17	17	16
NIT Nitration	0	0	6	53
SUL Sulfate By-Product	24	26	26	24
Sulfur Products	24	26	26	24

**CLEANLINESS**

	11-Jul-25	10-Sep-24	20-Dec-23	10-Jul-23
<b>PQ INDEX</b>				
PQI PQ Index	3	16	5	3

**WATER**

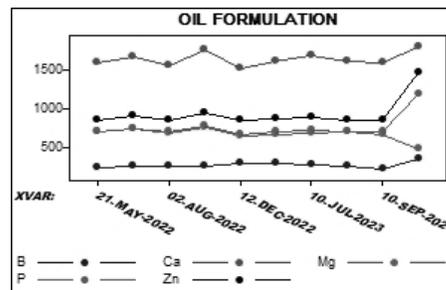
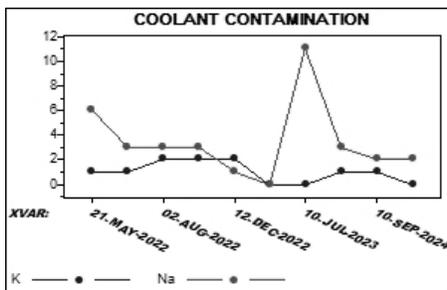
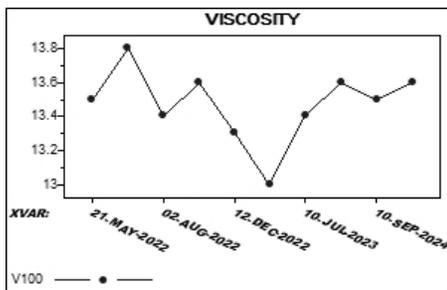
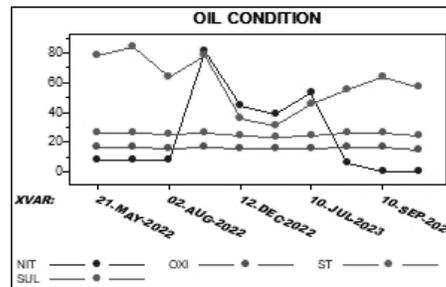
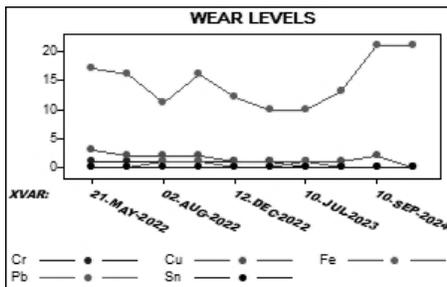
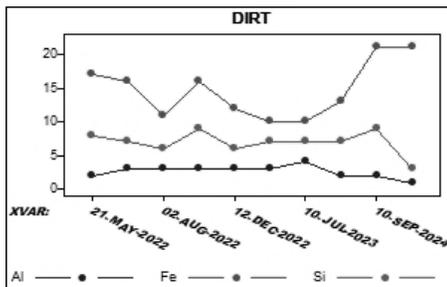
	11-Jul-25	10-Sep-24	20-Dec-23	10-Jul-23
W Water	N	N	N	N

**FUEL**

	11-Jul-25	10-Sep-24	20-Dec-23	10-Jul-23
F Fuel	N	N	N	N

**WEAR LEVELS / ADDITIVES**

	11-Jul-25	10-Sep-24	20-Dec-23	10-Jul-23
<b>ELEMENTAL ANALYSIS (PPM)</b>				
Cu Copper	0	2	1	1
Fe Iron	21	21	13	10
Cr Chromium	0	0	0	0
Al Aluminium	1	2	2	4
Pb Lead	0	0	0	1
Sn Tin	0	0	0	0
Si Silicon	3	9	7	7
Na Sodium	2	2	3	11
K Potassium	0	1	1	0
Mo Molybdenum	101	124	129	132
Ni Nickel	0	0	2	0
Ag Silver	0	0	0	0
Ti Titanium	0	0	0	0
V Vanadium	0	0	0	1
Mn Manganese	0	0	0	0
Cd Cadmium	0	0	0	1
Ca Calcium	1777	1586	1602	1675
P Phosphorus	1187	710	707	729
Zn Zinc	1451	847	852	895
Mg Magnesium	492	670	706	696
Ba Barium	0	0	0	1
B Boron	368	240	260	279



Report Comment

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**HYDROSTATIC  
TRANSMISSION/  
HYDRAULIC SYSTEM**

**EQUIP NUM: 22-026  
CAT 963D**

**SERIAL NUMBER: LCS02190**

**E500-55197-2024**

SAMPLE SHIP TIME (days) : 5

**ELDER CORPORATION**

RECEIVED DATE: 15-Jul-25

 **No Action Required**

RESULTS OF LATEST SAMPLE INDICATE ELEMENTS TESTED DIDN'T EXCEED NORMAL TRENDS FOR THIS COMPARTMENT  
. NO EXCESSIVE WEAR IS INDICATED AT THIS TIME. CONTINUE TO MONITOR COMPARTMENT BY SAMPLING AT  
RECOMMENDED INTERVALS.

**Interp By: Chris Gillis  
Interpreted On: 16-Jul-25**

**SAMPLE INFORMATION**

	11-Jul-25	10-Sep-24	20-Dec-23	10-Jul-23
Sampled Date	11-Jul-25	10-Sep-24	20-Dec-23	10-Jul-23
Sample Id	E500-55197-2024	E500-54256-2004	E500-53356-2006	E500-53193-2024
Lab Date	16-Jul-25	12-Sep-24	22-Dec-23	12-Jul-23
Meter [Hr]	13501	13309	13113	12914
Meter On Fluid	1645	1453	1257	1058
Fluid Brand	CHEVRON	CHEVRON	CHEVRON	CHEVRON
Fluid Weight	10W	10W	10W	10W
Fluid Type				
Fluid Change	Y	N	N	N
Filter Change	Y	N	N	N
Total Fluid Added	0	0	0	0

**PREVIOUS SAMPLE**

RESULTS OF LATEST SAMPLE INDICATE ELEMENTS TESTED DIDN'T EXCEED  
NORMAL TRENDS FOR THIS COMPARTMENT. NO EXCESSIVE WEAR IS  
INDICATED AT THIS TIME. CONTINUE TO MONITOR COMPARTMENT BY  
SAMPLING AT RECOMMENDED INTERVALS.

For additional sample history, go to:

S.O.S WEB

**CONDITION / CONTAMINATION**

		11-Jul-25	10-Sep-24	20-Dec-23	10-Jul-23
<b>VISCOSITY (CENTISTOKES)</b>					
V100	Viscosity at 100 C	6.800	6.800	6.800	6.800

**WEAR LEVELS / ADDITIVES**

		11-Jul-25	10-Sep-24	20-Dec-23	10-Jul-23
<b>ELEMENTAL ANALYSIS (PPM)</b>					
Cu	Copper	0	2	1	2
Fe	Iron	4	6	5	5
Cr	Chromium	0	0	0	0
Al	Aluminum	0	4	2	0
Pb	Lead	0	1	0	1
Sn	Tin	0	0	0	0
Si	Silicon	2	5	4	4
Na	Sodium	2	1	1	1
K	Potassium	2	0	0	0
Mo	Molybdenum	9	10	11	11
Ni	Nickel	0	0	0	1
Ag	Silver	0	0	0	0
Ti	Titanium	0	0	0	0
V	Vanadium	0	0	0	0
Mn	Manganese	0	0	0	0
Cd	Cadmium	0	0	0	0
Ca	Calcium	3899	3733	3554	3755
P	Phosphorus	1019	941	960	957
Zn	Zinc	1228	1164	1143	1195
Mg	Magnesium	51	44	46	52
Ba	Barium	0	0	0	0
B	Boron	16	18	16	18

**INFRARED (UFM)**

		11-Jul-25	10-Sep-24	20-Dec-23	10-Jul-23
ST	Soot	0	0	0	1
OXI	Oxidation	6	6	6	6
NIT	Nitration	0	0	0	8
SUL	Sulfate By-Product	13	13	14	14
	Sulfur Products	13	13	14	14

**PARTICLE COUNT**

ISO	ISO Code Rating	17/15/11	17/15/12	20/17/13	19/15/13

**LRG PARTICLE DETECT**

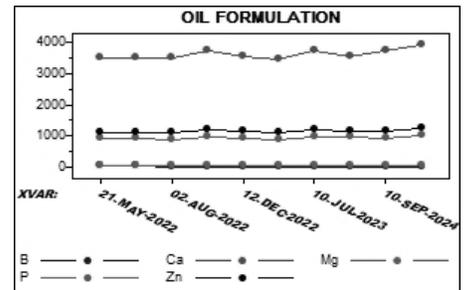
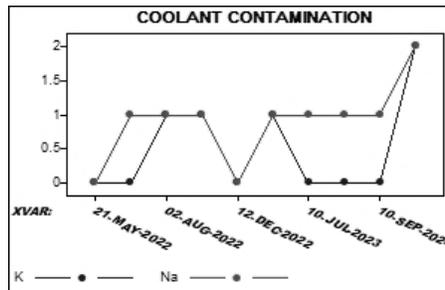
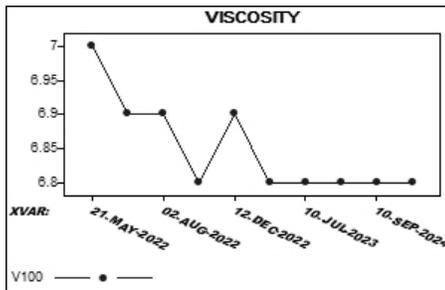
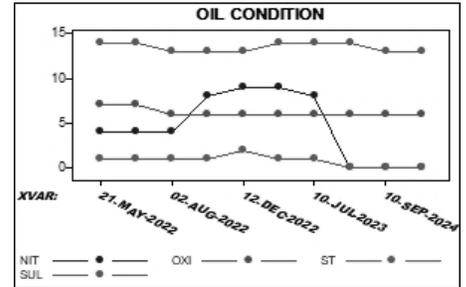
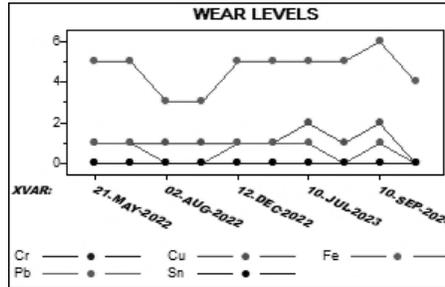
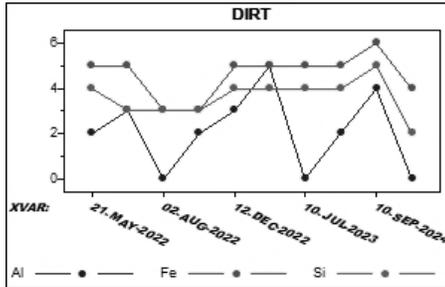
PC Ra	PC Rating	NVP

**CLEANLINESS**

		11-Jul-25	10-Sep-24	20-Dec-23	10-Jul-23
<b>PQ INDEX</b>					
PQI	PQ Index	3	13	9	6

**WATER**

W	Water	N	N	N	N



Report Comment

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**FINAL DRIVE REAR LEFT**

**EQUIP NUM: 22-026**

**SERIAL NUMBER: LCS02190**

**CAT 963D**

**No Action Required**

**Interp By: Chris Gillis  
Interpreted On: 16-Jul-25**

**E500-55197-1023**

SAMPLE SHIP TIME (days) : 5

**ELDER CORPORATION**

RECEIVED DATE: 15-Jul-25

RESULTS OF LATEST SAMPLE INDICATE ELEMENTS TESTED DIDN'T EXCEED NORMAL TRENDS FOR THIS COMPARTMENT . NO EXCESSIVE WEAR IS INDICATED AT THIS TIME. CONTINUE TO MONITOR COMPARTMENT BY SAMPLING AT RECOMMENDED INTERVALS.

**SAMPLE INFORMATION**

	11-Jul-25	10-Sep-24	20-Dec-23	10-Jul-23
Sampled Date	11-Jul-25	10-Sep-24	20-Dec-23	10-Jul-23
Sample Id	E500-55197-1023	E500-54256-1008	E500-53356-1016	E500-53193-1017
Lab Date	16-Jul-25	12-Sep-24	22-Dec-23	12-Jul-23
Meter [Hr]	13501	13309	13113	12914
Meter On Fluid	1645	1453	1257	1058
Fluid Brand	CHEVRON	CHEVRON	CHEVRON	CHEVRON
Fluid Weight	50	50	50	50
Fluid Type				
Fluid Change	Y	N	N	N
Filter Change			N	
Total Fluid Added	0	0	0	0

**PREVIOUS SAMPLE**

RESULTS OF LATEST SAMPLE INDICATE ELEMENTS TESTED DIDN'T EXCEED NORMAL TRENDS FOR THIS COMPARTMENT. NO EXCESSIVE WEAR IS INDICATED AT THIS TIME. CONTINUE TO MONITOR COMPARTMENT BY SAMPLING AT RECOMMENDED INTERVALS.

For additional sample history, go to:

S.O.S WEB

**CONDITION / CONTAMINATION**

	11-Jul-25	10-Sep-24	20-Dec-23	10-Jul-23
<b>VISCOSITY (CENTISTOKES)</b>				
V100 Viscosity at 100 C	15.70	15.70	15.90	16.10

**INFRARED (UFM)**

	11-Jul-25	10-Sep-24	20-Dec-23	10-Jul-23
ST Soot	0	0	0	1
OXI Oxidation	6	6	6	6
NIT Nitration	0	0	0	9
SUL Sulfate By-Product	14	14	15	14
Sulfur Products	14	14	15	14

**PARTICLE COUNT**

ISO	ISO Code Rating	24/23/18	24/23/18	24/23/19
PC Ra	PC Rating	NVP		

**LRG PARTICLE DETECT**

PC Ra	PC Rating	NVP

**CLEANLINESS**

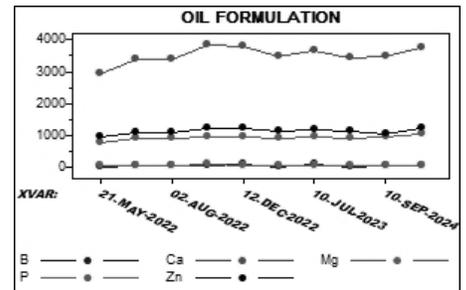
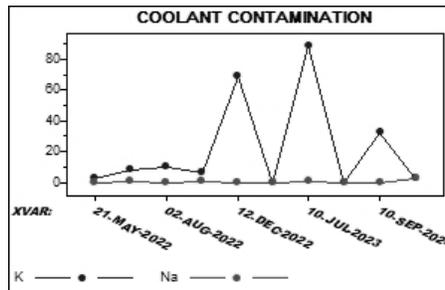
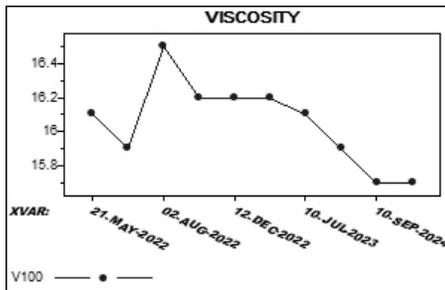
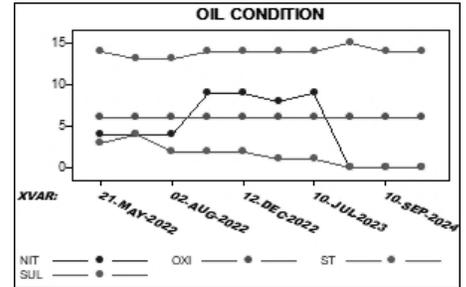
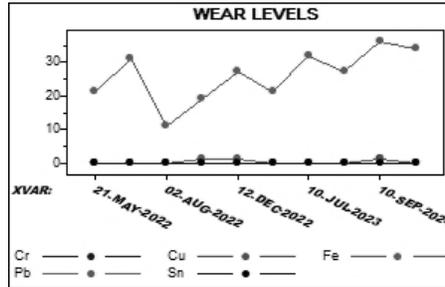
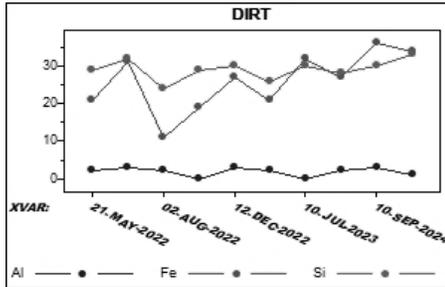
	11-Jul-25	10-Sep-24	20-Dec-23	10-Jul-23
<b>PQ INDEX</b>				
PQI PQ Index	6	19	14	8

**WATER**

W	Water	N	N	N	N

**WEAR LEVELS / ADDITIVES**

	11-Jul-25	10-Sep-24	20-Dec-23	10-Jul-23
<b>ELEMENTAL ANALYSIS (PPM)</b>				
Cu Copper	0	1	0	0
Fe Iron	34	36	27	32
Cr Chromium	0	1	0	0
Al Aluminium	1	3	2	0
Pb Lead	0	0	0	0
Sn Tin	0	0	0	0
Si Silicon	33	30	28	30
Na Sodium	2	0	0	1
K Potassium	2	32	0	88
Mo Molybdenum	20	21	20	21
Ni Nickel	0	0	0	1
Ag Silver	0	0	0	0
Ti Titanium	0	0	0	0
V Vanadium	0	0	0	0
Mn Manganese	0	0	0	0
Cd Cadmium	0	0	9	0
Ca Calcium	3757	3454	3416	3656
P Phosphorus	1057	935	908	925
Zn Zinc	1236	1049	1106	1159
Mg Magnesium	62	58	56	61
Ba Barium	0	0	0	0
B Boron	22	49	21	94



Report Comment

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**FINAL DRIVE REAR**

**EQUIP NUM: 22-026**

**SERIAL NUMBER: LCS02190**

**RIGHT**

**CAT 963D**

**No Action Required**

**Interp By: Chris Gillis**  
**Interpreted On: 16-Jul-25**

**E500-55197-1024**

SAMPLE SHIP TIME (days) : 5

**ELDER CORPORATION**

RECEIVED DATE: 15-Jul-25

RESULTS OF LATEST SAMPLE INDICATE ELEMENTS TESTED DIDN'T EXCEED NORMAL TRENDS FOR THIS COMPARTMENT  
. NO EXCESSIVE WEAR IS INDICATED AT THIS TIME. CONTINUE TO MONITOR COMPARTMENT BY SAMPLING AT  
RECOMMENDED INTERVALS.

**SAMPLE INFORMATION**

	11-Jul-25	10-Sep-24	20-Dec-23	10-Jul-23
Sampled Date	11-Jul-25	10-Sep-24	20-Dec-23	10-Jul-23
Sample Id	E500-55197-1024	E500-54256-1009	E500-53356-1017	E500-53193-1018
Lab Date	16-Jul-25	12-Sep-24	22-Dec-23	12-Jul-23
Meter [Hr]	13501	13309	13113	12914
Comp Meter [Hr]		13309		
Meter On Fluid	1645	1453	1257	1058
Fluid Brand	CHEVRON	CHEVRON	CHEVRON	CHEVRON
Fluid Weight	50	50	50	50
Fluid Type				
Fluid Change	Y	N	N	N
Filter Change			N	N
Total Fluid Added	0	0	0	0

**WEAR LEVELS / ADDITIVES**

	11-Jul-25	10-Sep-24	20-Dec-23	10-Jul-23
<b>ELEMENTAL ANALYSIS (PPM)</b>				
Cu Copper	0	0	0	0
Fe Iron	40	38	35	38
Cr Chromium	0	1	0	1
Al Aluminum	1	3	1	0
Pb Lead	0	0	0	0
Sn Tin	0	0	0	0
Si Silicon	30	28	28	33
Na Sodium	3	0	0	2
K Potassium	2	13	1	21
Mo Molybdenum	20	20	20	22
Ni Nickel	0	0	0	1
Ag Silver	0	0	0	0
Ti Titanium	0	0	0	0
V Vanadium	0	0	0	0
Mn Manganese	0	0	0	1
Cd Cadmium	0	0	10	0
Ca Calcium	3845	3491	3379	3747
P Phosphorus	1081	933	902	961
Zn Zinc	1252	1050	1092	1197
Mg Magnesium	64	58	59	67
Ba Barium	0	0	0	0
B Boron	22	32	21	42

**PREVIOUS SAMPLE**

RESULTS OF LATEST SAMPLE INDICATE ELEMENTS TESTED DIDN'T EXCEED  
NORMAL TRENDS FOR THIS COMPARTMENT. NO EXCESSIVE WEAR IS  
INDICATED AT THIS TIME. CONTINUE TO MONITOR COMPARTMENT BY  
SAMPLING AT RECOMMENDED INTERVALS.

For additional sample history, go to:

S.O.S WEB

**CONDITION / CONTAMINATION**

	11-Jul-25	10-Sep-24	20-Dec-23	10-Jul-23
<b>VISCOSITY (CENTISTOKES)</b>				
V100 Viscosity at 100 C	13.80	14.00	14.10	14.60

**INFRARED (UFM)**

	11-Jul-25	10-Sep-24	20-Dec-23	10-Jul-23
ST Soot	0	0	0	1
OXI Oxidation	6	6	6	6
NIT Nitration	0	0	0	8
SUL Sulfate By-Product	14	14	14	14
Sulfur Products	14	14	14	14

**PARTICLE COUNT**

ISO	ISO Code Rating	24/22/16	23/22/16	24/22/17
ISO	ISO Code Rating	24/22/16	23/22/16	24/22/17

**LRG PARTICLE DETECT**

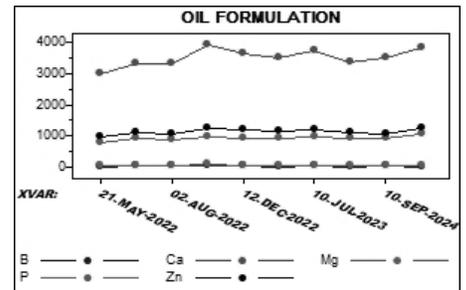
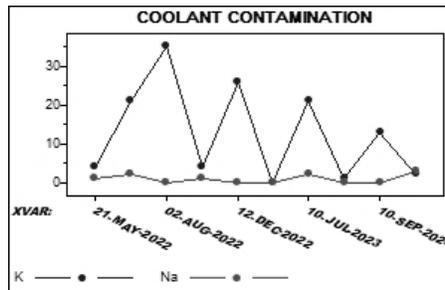
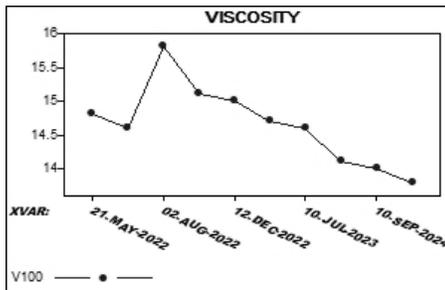
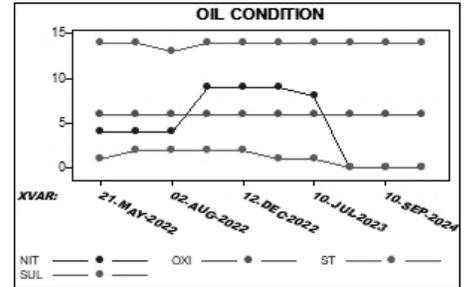
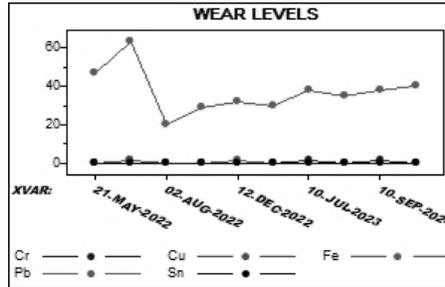
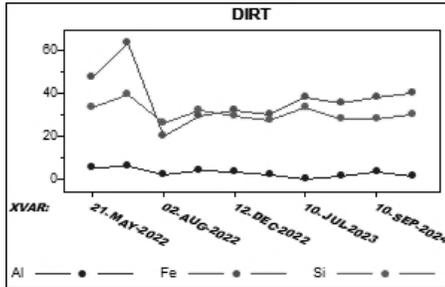
PC Ra	PC Rating	NVP
PC Ra	PC Rating	NVP

**CLEANLINESS**

	11-Jul-25	10-Sep-24	20-Dec-23	10-Jul-23
<b>PQ INDEX</b>				
PQI PQ Index	13	24	17	17

**WATER**

W	Water	N	N	N	N
W	Water	N	N	N	N



**Report Comment**

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