

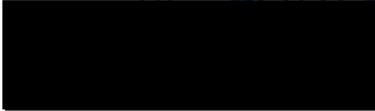
ZIEGLER

C O M P A N I E S

901 West 94th Street
Minneapolis MN 55420-4236

SC00523831
13-19-48
Re-billing.

Sold to:



Service Invoice

Invoice
Date
Call Number
Location
Page

Minnesota 800-352-2812
Iowa 800-342-7002
Missouri 800-342-7002
Wisconsin 800-342-7002

SI000462559
3/18/2024
SC00523831
Postville
1 / 21

Ship to



Invoice Account



Payment

AR - Net 10th of the
Following Month

Due Date

4/10/2024

Customer PO	Customer EQ	Model	Serial Number	Equipment ID	Segment SMU
SC00523831	13-19-48	D6N	SGG01148	D5757	6,245.00

Summary

Parts	40,437.11
Labor	87,245.68
Misc	4,233.86

Sales Tax Summary

Parts, Labor and Misc	131,916.65
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Flat Rate Total	12,278.53
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Subtotal	144,195.18
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Shop Supplies and Environmental Fees	650.00
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Sales Tax	7,742.86
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Subtotal	144,845.18
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Total	\$ 152,588.04
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Invoice
Date
Account

SI000462559
3/18/2024
6236000

Please Remit to:

Ziegler Inc.
SDS 12-0436
PO BOX 86
MINNEAPOLIS, MN 55486-0436

Amount Due:

\$152,588.04

Amount Enclosed:

Invoice	Date	Call Number	Location	Page
SI000462559	3/18/2024	SC00523831	Postville	2 / 21

SC00523831-010 Recondition Before Failure - Trans & Differential Unit

Customer PO	Customer EQ	Model	Serial Number	Equipment ID	Segment SMU
SC00523831	13-19-48	D6N	SGG01148	D5757	6,245

Quantity	Type	Part Number	Description	Unit Price	Amount
2.00	Parts	2S8983	Seal		
15.00	Parts	3552617	Disc-Frictio		
1.00	Parts	5P4921	Race		
1.00	Parts	7T8859	Cup		
1.00	Parts	5P4920	Race&Roller		
2.00	Parts	6P7985	Seal		
1.00	Parts	2391139	Seal		
1.00	Parts	6P7772	Ring-Seal		
2.00	Parts	2147568	Seal-O Ring		
1.00	Parts	2P8421	Adapter		
1.00	Parts	2D8009	Seal O Ring		
1.00	Parts	2385083	Seal-O-Ring		
1.00	Parts	7B7515	Bearing		
12.00	Parts	3S8109	Pin-Spring		
1.00	Parts	2J6362	Bearing A		
1.00	Parts	2385082	Seal-O-Ring		
1.00	Parts	6V1864	Cup-Rlr Brg		
1.00	Parts	2057397	Cone-Tprd RI		
6.00	Parts	8E8297	Disc		
4.00	Parts	7S4534	Bearing A		
1.00	Parts	5P8065	Ring		
1.00	Parts	3D2824	Seal O Ring		
1.00	Parts	3180106	Seal-Lip Typ		
1.00	Parts	8D5096	Seal		
1.00	Parts	2057398	Cup-Tprd Rlr		
2.00	Parts	6Y0306	Bearing-Slve		
1.00	Parts	3L9410	Cone		
1.00	Parts	2057396	Cone-Tprd RI		
1.00	Parts	1139212	Disc		
2.00	Parts	4511493	Seal-O-Ring		
2.00	Parts	6V1649	Bearing		
7.00	Parts	5P7530	Seal O Ring		
1.00	Parts	8P0058	Gasket		
1.00	Parts	1046730	Gasket		
2.00	Parts	5P8210	Seal-O-Ring		
4.00	Parts	7G5675	Ring-Seal		
1.00	Parts	6V2404	Washer		

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4.00 Parts	3552618	Disc-Frictio
1.00 Parts	7F6935	Inner Race
5.00 Parts	9G1234	Spring
1.00 Parts	4F2294	Nut
4.00 Parts	6P5724	Lock
1.00 Parts	9M1503	Ring-Seal
1.00 Parts	7G5730	Ring-Seal
1.00 Parts	6V0852	Cap
24.00 Parts	8E8299	Disc
4.00 Parts	6P7773	Ring-Seal
1.00 Parts	3J1907	Seal
2.00 Parts	5P9186	Seal O Ring
2.00 Parts	8P8950	Ring-Seal
8.00 Parts	5P3930	Bearing
3.00 Parts	5P3131	Bearing A
1.00 Parts	SOS001 - 123	ZIEG000 SOS 1 PACK
1.00 Parts	6Y3484	Bearing
3.00 Parts	6K8329	Cone
3.00 Parts	6K8328	Cup
2.00 Parts	3K1432	Ring
2.00 Parts	3P7019	Seal
Labor		Labor

SC00523831-010

**Recondition Before Failure - Trans &
Differential Unit**

Parts
Labor
Misc

Segment Subtotal: 12,278.53

Invoice	Date	Call Number	Location	Page
SI000462559	3/18/2024	SC00523831	Postville	4 / 21

SC00523831-012 Extra Parts/Labor/Misc for - Trans & Differential Unit

Customer complaint: repair transmission, changed to recondition
Resultant damage: one set of plates where warped
Cause of failure: directional frictions burnt and glazed
Repair process comments: Disassembled, removed all bearings, washed, buffed, inspected, and checked through updates.
This machine needed piston update changing them from aluminum to steel.
Service Magazine; New Transmission Clutch Pistons to Improve Shift Quality Are Available for Certain D5 and D6N Track-Type Tractors {3160} (M0138279-03) Dated: 2023/03/30
Assembled transmission with all new o-rings, seals, metal seal rings, bearings, friction discs, plates, washers, spring-pins, bushings, solenoids, speed sensors, wiring harness, and updated pistons. Set bearing endplay to spec. Set backlash to .008", CAT Spec is .008" +/- .004".
The transmission was painted and tested.

Customer PO	Customer EQ	Model	Serial Number	Equipment ID	Segment SMU
SC00523831	13-19-48	D6N	SGG01148	D5757	6,245

Quantity	Type	Part Number	Description	Unit Price	Amount
5.00	Parts	6008815	Valve Gp-Sol		
1.00	Parts	1M9351	Spring		
1.00	Parts	4456133	Harness As-X		
7.00	Parts	6V3965	Nipple A		
7.00	Parts	2147568	Seal-O Ring		
2.00	Parts	6V0852	Cap		
2.00	Parts	3181179	Sensor Gp-Sp		
10.00	Parts	1622165	Bolt-Hex		
2.00	Parts	6154051	6154051		
2.00	Parts	4482859	Drain		
3.00	Parts	6P7968	Plate		
1.00	Parts	4651271	Harness As		
1.00	Parts	6V0834	Ring		
1.00	Parts	0353360	Ring		
1.00	Parts	4481367	Cover As		

SC00523831-012	Extra Parts/Labor/Misc for - Trans & Differential Unit	Labor	
		Misc	
		Segment Subtotal:	4,428.00

Invoice	Date	Call Number	Location	Page
SI000462559	3/18/2024	SC00523831	Postville	5 / 21

SC00523831-014 Extra Parts/Labor/Misc for - Torque Converter

Customer complaint: repair Torque converter.

Resultant damage: temp sensor was also broken

Cause of failure: Valve GP-Solenoid-518-5072 broke off

Repair process comments: disassembled torque converter all necessary surfaces were buffed then washed ordered all new seals and bearings. before assembling, all reused parts were inspected before install. installed all new bearings and seals

Customer PO	Customer EQ	Model	Serial Number	Equipment ID	Segment SMU
SC00523831	13-19-48	D6N	SGG01148	D5757	6,245

Quantity	Type	Part Number	Description	Unit Price	Amount
1.00	Parts	2B0858	Plug		
2.00	Parts	4792172	Bolt As		
1.00	Parts	2905792	Sensor Gp		
2.00	Parts	1T0034	Ring		
1.00	Parts	1T0205	Ring		
1.00	Parts	5215446	Ring-Retaini		
1.00	Parts	2S1382	Spring		
1.00	Parts	6008815	Valve Gp-Sol		
1.00	Parts	2566453	Sensor Gp-Te		
20.00	Parts	5270485	Spring-Freew		
18.00	Parts	5413260	Roller-Freew		
1.00	Parts	8P8555	Race		
1.00	Parts	5177206	Cam-Freewhee		
1.00	Parts	5P3629	Ring		
3.00	Parts	8T7934	Washer		
3.00	Parts	8T4172	Bolt		
1.00	Parts	3929262	Bearing Slee		

SC00523831-014

Extra Parts/Labor/Misc for - Torque Converter

Parts	3,076.00
Labor	
Misc	
Segment Subtotal:	3,076.00

Invoice	Date	Call Number	Location	Page
SI000462559	3/18/2024	SC00523831	Postville	6 / 21

SC00523831-019 Remove & Install - Transmission Oil Pump

Customer complaint: repair transmission pump

Resultant damage: after the machine was warmed was had a puddle of trans oil under the torq.

Cause of failure: oring missing, and something was laying across oring causing a diff. leak

Repair process comments: I ended up putting dye in the oil to verify where the leak was, was leaking at the pump to base plate and seeping at the joints, ordered a reman pump, and installed with new seals and bolts, reused the oil, returned the core

Customer PO	Customer EQ	Model	Serial Number	Equipment ID	Segment SMU
SC00523831	13-19-48	D6N	SGG01148	D5757	6,245

Quantity	Type	Part Number	Description	Unit Price	Amount
1.00	Parts	3H1461	Ring	2.64	2.64
1.00	Parts	4J0520	Seal-O-Ring	2.58	2.58
1.00	Parts	4J0522	Seal-O-Ring	2.84	2.84
1.00	Parts	4J0527	Seal O Ring	3.98	3.98
5.00	Parts	1984777	Washer-Hard	2.63	13.15
1.00	Parts	8T4182	Bolt	1.38	1.38
2.00	Parts	8T5005	Bolt	2.08	4.16
1.00	Parts	1757904	Seal-O-Ring	7.87	7.87
1.00	Parts	20R7999	Pump Gp	2,232.46	2,232.46
1.00	Parts	20R7999CC	Pump Gp - Core Charg	1,155.86	1,155.86
-1.00	Parts	20R7999WC	Pump Gp - Worn Core	1,155.86	-1,155.86
	Labor		Labor		960.38

SC00523831-019 Remove & Install - Transmission Oil Pump

Parts	2,271.06
Labor	960.38
Misc	
Segment Subtotal:	3,231.44

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SC00523831-013 Rebearing & Reseal - Torque Converter - Lockup

Disassembled the torque converter and inspected all of the parts. All of the parts were inspected per Caterpillar reusability guidelines. The parts that did not meet the guidelines were replaced with new ones. Reassembled the torque converter with new bearings, seals, valve springs, and sensors. The torque converter was sent to the Test Cell. The torque converter was tested on the test bench. The torque converter outlet relief pressure was set to spec and the converter leakage was good. See the attached test sheet for detailed specs. After testing the torque converter was prepped and painted. Rebearing and reseal torque converter, standard job includes bearings, seals and misc hardware.

Customer PO	Customer EQ	Model	Serial Number	Equipment ID	Segment SMU
SC00523831	13-19-48	D6N	SGG01148	D5757	6,245
Quantity	Type	Part Number	Description	Unit Price	Amount
1.00	Parts	1T1639	Ring		
1.00	Parts	2147568	Seal-O Ring		
1.00	Parts	6D7889	Seal		
2.00	Parts	6V0852	Cap		
1.00	Parts	3929262	Bearing Slee		
2.00	Parts	5P9806	Seal-O-Ring		
1.00	Parts	1N7057	Seal Ring		
1.00	Parts	8H9818	Gasket		
1.00	Parts	3J1907	Seal		
1.00	Parts	2744254	Ring-Seal		
2.00	Parts	1T0043	Bearing		
1.00	Parts	3308196	Seal-O-Ring		
3.00	Parts	2385080	Seal-O-Ring		
9.00	Parts	4567022	Spring-Freew		
1.00	Parts	9X7719	Seal		
1.00	Parts	3S1281	Ring		
1.00	Parts	9F1399	Ring		
1.00	Parts	2655287	Ring-Seal		
1.00	Parts	3317132	Ring-Seal		
1.00	Parts	8T4910	Bolt		
1.00	Parts	5P5846	Seal O Ring		
1.00	Parts	2385083	Seal-O-Ring		
3.00	Parts	8M4986	Seal O Ring		
1.00	Parts	4335967	Seal-O-Ring		
1.00	Parts	4335968	Seal-O-Ring		
1.00	Parts	1968548	Ring-Seal		
2.00	Parts	3042746	Bearing-Thru		
1.00	Parts	3616725	Race Thrust		
1.00	Parts	3606838	Bearing		
1.00	Parts	8M2031	Bearing		
25.00	Parts	8P7857	Roller		
2.00	Parts	3616722	Washer Thrus		

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2.00 Parts 4B3665 Bearing
Labor Labor

**SC00523831-013 Rebearing & Reseal - Torque Converter
- Lockup**

Parts	1,652.05
Labor	2,610.35
Misc	
Segment Subtotal:	4,262.40

SC00523831-001 Travel To/From

Customer PO	Customer EQ	Model	Serial Number	Equipment ID	Segment SMU
SC00523831	13-19-48	D6N	SGG01148	D5757	6,245
Quantity	Type	Part Number	Description	Unit Price	Amount
		Labor	Labor		15,907.00
1.00	Misc	OWM - HOTEL		490.12	490.12
2,592.00	Misc	MIL	TRAVEL MILEAGE	2.72	7,050.24

SC00523831-001 Travel To/From

Parts	
Labor	15,907.00
Misc	7,540.36
Segment Subtotal:	23,447.36

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SI000462559	3/18/2024	SC00523831	Postville	9 / 21

SC00523831-002 Remove & Install - Transmission

Customer complaint: repair transmission

Resultant damage: removed and repair trans and torque convertor

Cause of failure: internal damage

Repair process comments: we removed cab and removed the trans and torque convertor.

Customer complaint: repair transmission

Resultant damage: removed and repair trans and torque convertor

Cause of failure: internal damage

Repair process comments: we removed cab and removed the trans and torque convertor.

torq, was installed with new seals after rear main was replaced, trans was installed with new seals, new u-joints, hoses, all pumps/ motor installed with new seals and orings,

Customer PO	Customer EQ	Model	Serial Number	Equipment ID	Segment SMU
SC00523831	13-19-48	D6N	SGG01148	D5757	6,245
Quantity	Type	Part Number	Description	Unit Price	Amount
1.00	Parts	5D7523	Seal	20.50	20.50
2.00	Parts	8M5254	Seal O Rin	4.89	9.78
1.00	Parts	7M0475	Ring	17.57	17.57
1.00	Parts	8P0058	Gasket	5.37	5.37
2.00	Parts	5P8210	Seal-O-Ring	10.99	21.98
8.00	Parts	8T4182	Bolt	1.38	11.04
8.00	Parts	6V5843	Bolt	0.92	7.36
2.00	Parts	4887916	Univ Joint A	119.27	238.54
4.00	Parts	8T4136	Bolt	0.77	3.08
1.00	Parts	4248553	Hose	62.84	62.84
2.00	Parts	4J0527	Seal O Ring	3.98	7.96
1.00	Parts	6L5359	Seal O Ring	12.50	12.50
2.00	Parts	8T6703	Clamp	18.31	36.62
1.00	Parts	4172404	Hose As.	141.64	141.64
8.00	Parts	2006345	Mount-Swivel	6.69	53.52
1.00	Parts	6V1889	Clip	7.73	7.73
1.00	Parts	5D0718	Clip	12.14	12.14
1.00	Parts	5P8112	Grommet	31.18	31.18
2.00	Parts	1772215	Strap-Dual C	3.42	6.84
2.00	Parts	4790017	Grommet	15.62	31.24
1.00	Parts	5067564	Hose As	51.93	51.93
4.00	Parts	3B4617	Cotter Pin	0.17	0.68
9.00	Parts	7X0618	Washer	3.74	33.66
9.00	Parts	8T4910	Bolt	2.46	22.14
1.00	Parts	7N0718	Switch A	113.82	113.82

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Labor	Labor		3,388.43
SC00523831-002	Remove & Install - Transmission	Parts	961.66
		Labor	3,388.43
		Misc	
		Segment Subtotal:	4,350.09

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SC00523831-003 Repair - Track Roller Frame

Customer complaint: track frame update

Resultant damage: remove track frames

Cause of failure: track frame has cracks

Repair process comments: we raised and supported the machine. we released the track tension and removed the tracks. we removed the track frames. customer will weld updates in their shop

when the frames were done, I went to install the rollers and found 1/2 of them with loose bushings or leaking, called Dillion and he said to install new ones that they had on hand
with new bolts, installed frames with new retainer bolts, seals, filled with oil, and new fill plugs, installed tracks with new master bolts, tighten tracks

Customer PO	Customer EQ	Model	Serial Number	Equipment ID	Segment SMU
SC00523831	13-19-48	D6N	SGG01148	D5757	6,245
Quantity	Type	Part Number	Description	Unit Price	Amount
2.00	Parts	7X0587	Washer	3.40	6.80
2.00	Parts	5H6734	Seal-O-Ring	6.16	12.32
2.00	Parts	3B8489	Adapter Str	1.93	3.86
2.00	Parts	8T4190	Bolt	1.85	3.70
4.00	Parts	8G4190	Seal	147.46	589.84
2.00	Parts	8G2943	Seal	29.00	58.00
1.00	Parts	6313402	6313402	4,429.50	4,429.50
4.00	Parts	1J6472	Ring	19.85	79.40
2.00	Parts	3407503	Pin As	311.27	622.54
2.00	Parts	8G4189	Bearing	123.81	247.62
6.00	Parts	1608510	Bolt	7.06	42.36
64.00	Parts	8T0281	Bolt	4.04	258.56
16.00	Parts	8T4140	Bolt	4.34	69.44
64.00	Parts	9X8268	Washer	1.11	71.04
8.00	Parts	8T7338	Bolt	3.29	26.32
8.00	Parts	9X8257	Washer	1.34	10.72
8.00	Parts	2540225	Bolt-Tck Mst	4.43	35.44
	Labor		Labor		4,442.01
SC00523831-003 Repair - Track Roller Frame				Parts	6,567.46
				Labor	4,442.01
				Misc	
				Segment Subtotal:	11,009.47

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SC00523831-004 Remove - "C" Frame

Customer complaint: remove c frame for bushing and pin repairs

Resultant damage: loose pins and bushings

Cause of failure: c frame mounts at the machine frame are loose

Repair process comments: we removed side panels and disconnected the wiring and hoses on the left and right side of the tractor frame. we removed c frame mounting pins and lowered c frame to the ground giving clearance for line bore and bushing install.

installed new bearings, and retainers, new bearings, in the equalizer bar, installed c-frame, with new pins, and greased

Customer PO	Customer EQ	Model	Serial Number	Equipment ID	Segment SMU
SC00523831	13-19-48	D6N	SGG01148	D5757	6,245

Quantity	Type	Part Number	Description	Unit Price	Amount
2.00	Parts	1078126	Bearing	334.89	669.78
2.00	Parts	1090958	Pin	239.14	478.28
4.00	Parts	1090959	Ring	41.63	166.52
6.00	Parts	4Y4905	Washer	44.20	265.20
4.00	Parts	1085794	Plug Pipe	8.64	34.56
2.00	Parts	1044746	Dowel	70.67	141.34
	Labor		Labor		3,217.50

SC00523831-004 Remove - "C" Frame

Parts	1,755.68
Labor	3,217.50
Misc	
Segment Subtotal:	4,973.18

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SC00523831-005 Remove & Install - Operator Station

Customer complaint: Remove operators station to gain access and make clearance for removal of the torque convertor

Resultant damage: cab has to come off

Cause of failure: necessary to remove the torque convertor

Repair process comments: we drained engine coolant. we recovered freon. we removed engine hood. we removed side panels. we removed fender panels and disconnected wiring harness. we removed the rops. rest of procedure was completed by postville staff.

R-I air intake plumbing, emissions module, a/c refrigerant and coolant lines, cab wire harness, seat, electronic control modules, operator's station. we installed all that was removed, removed existing door seals and installed new, installed new def injector gasket, installed new clamp on emissions module outlet pipe, new air filters. Found fire extinguisher not recently inspected, removed and replaced with good fire extinguisher. Found existing batteries to be dead and charge not fully recovered by charging, removed batteries and installed new with new hardware. Found master d/c switch gets stuck in off position, removed and installed new. recharged ac with new dryer, resealed side panels for the hvac box, new coolant they supplied, new antenna cable for PL. Operated unit to verify operation and check for leaks, calibrated hydraulic system.

Customer PO	Customer EQ	Model	Serial Number	Equipment ID	Segment SMU
SC00523831	13-19-48	D6N	SGG01148	D5757	6,245
Quantity	Type	Part Number	Description	Unit Price	Amount
1.00	Parts	3391048	Filter Kt Br	35.29	35.29
1.00	Parts	1737035	Block Kit-SI	30.26	30.26
1.00	Parts	3592842	Pipe-Brthr I	471.53	471.53
1.00	Parts	2573226	Dryer	66.60	66.60
2.00	Parts	4182073	Gasket As	4.98	9.96
1.00	Parts	3595885	Clamp As.	32.60	32.60
2.00	Parts	1535710	BATTERY4D	341.25	682.50
4.00	Parts	1M6119	Bolt	4.01	16.04
4.00	Parts	1M6120	Nut	0.32	1.28
1.00	Parts	4548480	Alarm As-Bac	112.84	112.84
1.00	Parts	2255075	Lamp Gp-Floo	59.38	59.38
1.00	Parts	3967087	Filter Gp Ai	30.54	30.54
2.00	Parts	3293243	Filter As.	27.65	55.30
406.00	Parts	1333234	Cm Seal	0.24	97.44
8.00	Parts	7Y2854	Spacer	9.91	79.28
1.00	Parts	6V9197	Pin-Lock	0.64	0.64
6.00	Parts	8T4195	Bolt	0.90	5.40
12.00	Parts	8T4222	Washer	1.44	17.28
4.00	Parts	8T4136	Bolt	0.77	3.08
6.00	Parts	7X7729	Washer	1.06	6.36
6.00	Parts	3445675	Nut-Hex	0.53	3.18
4.00	Parts	1837121	Bolt	1.24	4.96
8.00	Parts	1462282	Collar	11.40	91.20
1.00	Parts	3836649	Cable As	488.00	488.00
430.00	Parts	3E3892	Cm Seal Stk	0.09	38.70
17.00	Parts	2025293	Dm Bulk Seal	0.71	12.07

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SI000462559	3/18/2024	SC00523831	Postville	14 / 21

Labor	Labor	9,247.26	
SC00523831-005	Remove & Install - Operator Station	Parts	2,451.71
		Labor	9,247.26
		Misc	
		Segment Subtotal:	11,698.97

SC00523831-006 Remove & Install - Torque Converter/Divider	
Customer complaint: remove torque convertor	
Resultant damage: repairs needed	
Cause of failure: internal failure	
Repair process comments: we removed the cab we removed the hydraulic pumps and steering motor. we removed lines and wiring that were in the way of removal. we removed the torque convertor and prepped for shipping. sent to Altoona for repairs	
Customer complaint: remove torque convertor	
Resultant damage: repairs needed	
Cause of failure: internal failure	
Repair process comments: we removed the cab we removed the hydraulic pumps and steering motor. we removed lines and wiring that were in the way of removal. we removed the torque convertor and prepped for shipping. sent to ZRC for repairs	
Scott installed after replacing the rear main seal, installed pumps, new hoses, steer motor,	

Customer PO	Customer EQ	Model	Serial Number	Equipment ID	Segment SMU
SC00523831	13-19-48	D6N	SGG01148	D5757	6,245
Quantity	Type	Part Number	Description	Unit Price	Amount
1.00	Parts	2770116	Seal-Oil	95.44	95.44
1.00	Parts	5P9806	Seal-O-Ring	15.74	15.74
8.00	Parts	8T4182	Bolt	1.38	11.04
1.00	Parts	4J0527	Seal O Ring	3.98	3.98
1.00	Parts	4469653	Hose As	42.19	42.19
	Labor		Labor		4,329.75
SC00523831-006	Remove & Install - Torque Converter/Divider			Parts	168.39
				Labor	4,329.75
				Misc	
				Segment Subtotal:	4,498.14

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SC00523831-007 Repair - Hydraulic Hoses/Lines

Customer complaint: While machine is down for transmission and torque convertor repairs and access is improved by removal of cab, replace hydraulic hoses showing corrosion, wear or damage before failure.

Resultant damage: NA

Cause of failure: Preventative

Repair process comments: Removed worn and damaged hydraulic hoses and replaced with new. Found many of the hoses and components submerged and embedded in compacted dirt, includes time spent removing compacted dirt to gain access and prevent hydraulic system contamination. Removed brake valve to gain access to hoses to/from filter, re-installed brake valve with new fasteners and o-rings. Had customer lube technician refill hydraulic oil upon reassembly. Operated unit to verify operation and check for leaks and topped off hydraulic oil.

all the hoses were replaced that ran to the front of the machine, and out to the blade

Customer PO	Customer EQ	Model	Serial Number	Equipment ID	Segment SMU
SC00523831	13-19-48	D6N	SGG01148	D5757	6,245
Quantity	Type	Part Number	Description	Unit Price	Amount
1.00	Parts	6145838	6145838	103.20	103.20
4.00	Parts	8T6703	Clamp	17.96	71.84
1.00	Parts	6145839	6145839	121.51	121.51
1.00	Parts	4188529	Hose As.	90.17	90.17
1.00	Parts	4162481	Hose As.	142.23	142.23
1.00	Parts	3974809	Hose As.	112.77	112.77
1.00	Parts	4805455	Hose As.	194.05	194.05
1.00	Parts	4805454	Hose As.	135.57	135.57
1.00	Parts	5066641	Hose As.	97.22	97.22
1.00	Parts	5066640	Hose As.	143.16	143.16
1.00	Parts	5066642	Hose As.	129.42	129.42
1.00	Parts	4206374	Hose As.	134.03	134.03
1.00	Parts	4172400	Hose As.	69.35	69.35
1.00	Parts	4172404	Hose As.	138.86	138.86
1.00	Parts	4172403	Hose As.	173.84	173.84
1.00	Parts	4985335	Hose As.	104.46	104.46
1.00	Parts	6V1889	Clip	7.73	7.73
8.00	Parts	2006345	Mount-Swivel	6.56	52.48
4.00	Parts	7X7958	Clamp Hose	12.50	50.00
1.00	Parts	4778082	Hose As.	130.93	130.93
1.00	Parts	4778080	Hose As.	138.69	138.69
2.00	Parts	4643535	Hose As.	143.93	287.86
2.00	Parts	4643536	Hose As.	188.36	376.72
2.00	Parts	4643537	Hose As.	191.85	383.70
1.00	Parts	4396274	Hose As.	200.41	200.41
2.00	Parts	4643534	Hose As.	130.08	260.16
4.00	Parts	8M5254	Seal O Rin	4.89	19.56
1.00	Parts	8T5436	Bolt	3.66	3.66
4.00	Parts	8T4121	Washer-Hard	0.67	2.68

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3.00	Parts 7X2543		Bolt	3.42	10.26
1.00	Parts 9S8005		Plug	5.78	5.78
1.00	Parts 3K0360		Seal	1.52	1.52
1.00	Parts 3J1907		Seal	1.35	1.35
1.00	Parts 9S8004		Plug	8.96	8.96
4.00	Parts 2826598		Spacer	45.09	180.36
2.00	Parts 3582191		Pin	128.81	257.62
1.00	Parts 9J3047		Strainer	29.19	29.19
	Labor		Labor		11,270.50
SC00523831-007 Repair - Hydraulic Hoses/Lines				Parts	4,371.30
				Labor	11,270.50
				Misc	
				Segment Subtotal:	15,641.80

Invoice	Date	Call Number	Location	Page
SI000462559	3/18/2024	SC00523831	Postville	17 / 21

SC00523831-009 Remove & Install - Final Drive & Brake

Customer complaint: remove final drives and brakes for rebuild
 Resultant damage: preventative
 Cause of failure: customer wants finals gone through at this time due to trans and torque convertor being removed for repairs
 Repair process comments: we removed the final drives and brakes from machine after draining the oils in them. prepped for repairs
 Re-installed final drives and brakes after rebearing/reseal completed. Installed new left and right outer axle shafts upon reassembly due to pitting damage found on both sun gears. Customer lube technician refilled units with oil upon reassembly. Verified oil level, operated unit to verify operation, checked oil again after operation. Obtained oil samples.

Customer PO	Customer EQ	Model	Serial Number	Equipment ID	Segment SMU
SC00523831	13-19-48	D6N	SGG01148	D5757	6,245
Quantity	Type	Part Number	Description	Unit Price	Amount
2.00	Parts	2R0098	Seal O Ring	16.40	32.80
4.00	Parts	6F6673	Seal	2.50	10.00
2.00	Parts	8D4771	Seal	17.05	34.10
2.00	Parts	1757904	Seal-O-Ring	7.87	15.74
1.00	Parts	4J0527	Seal O Ring	3.98	3.98
	Labor		Labor		3,679.50
SC00523831-009 Remove & Install - Final Drive & Brake				Parts	96.62
				Labor	3,679.50
				Misc	
				Segment Subtotal:	3,776.12

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SC00523831-011 Rebearing & Reseal - Final Drive & Brake

Customer complaint: Rebearing/reseal of final drives and brakes requested by Jason while machine is down for transmission and torque convertor repair.

Resultant damage: N/A

Cause of failure: N/A

Repair process comments: Disassembled both final drive and brake assemblies and steering differential, reassembled with all new bearings and seals. Upon reassembly, set bearing preload per OE specification where applicable, torqued fasteners to OE specification where applicable and standard torque based on fastener size when not specified. Inspected other components for unacceptable damage or wear. Replaced left and right outer axle shafts with new due to pitting damage found on both shaft sun gears. Operated unit to verify operation and obtained oil samples.

Customer PO	Customer EQ	Model	Serial Number	Equipment ID	Segment SMU
SC00523831	13-19-48	D6N	SGG01148	D5757	6,245

Quantity	Type	Part Number	Description	Unit Price	Amount
1.00	Parts	2K2939	Seal	7.32	7.32
12.00	Parts	8E8307	Disc	9.19	110.28
4.00	Parts	3K0360	Seal	1.49	5.96
2.00	Parts	8M4438	Seal O Ring	2.79	5.58
2.00	Parts	8P8357	Ring	56.39	112.78
1.00	Parts	3T6963	Seal	42.64	42.64
1.00	Parts	3T9272	Shim Pack	13.29	13.29
8.00	Parts	8E8310	Disc-Thrust	10.28	82.24
1.00	Parts	9W2853	Shim Pack	140.83	140.83
9.00	Parts	5M0578	Bearing A	22.46	202.14
2.00	Parts	7H4566	Cup	34.74	69.48
2.00	Parts	4604832	Seal-Lip Typ	30.58	61.16
2.00	Parts	1H8128	Seal-O-Ring	5.80	11.60
6.00	Parts	1H9696	Ring	3.19	19.14
2.00	Parts	2S4078	Seal	2.58	5.16
2.00	Parts	6Y0859	Seal Gp-Duo	263.08	526.16
2.00	Parts	8D4771	Seal	16.70	33.40
2.00	Parts	2R0098	Seal O Ring	16.08	32.16
4.00	Parts	6F6673	Seal	2.45	9.80
1.00	Parts	8T0072	Cone	170.62	170.62
2.00	Parts	6V0327	Bearing-Cup	109.32	218.64
1.00	Parts	3N0759	Ring	44.68	44.68
3.00	Parts	9W7925	Bearing	73.78	221.34
2.00	Parts	9W7926	Bearing	43.00	86.00
2.00	Parts	6T0850	Washer	107.37	214.74
3.00	Parts	6V0330	Cup	65.92	197.76
1.00	Parts	2K9295	Cone	128.04	128.04
1.00	Parts	3B4124	Bearing-Cup	49.88	49.88
4.00	Parts	5M7925	Bearing A	37.17	148.68
1.00	Parts	6P1735	Lockwasher	4.71	4.71

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12.00	Parts	1B3978	Cup	38.72	464.64
12.00	Parts	1B3980	Cone	53.45	641.40
2.00	Parts	8H0902	Cone	287.22	574.44
2.00	Parts	2K5066	Bearing-Cone	142.21	284.42
2.00	Parts	6P5317	Ring	60.50	121.00
3.00	Parts	3S-2708 - 200	SPRING PIN-X6.35X22.	12.43	37.29
1.00	Parts	7G1596	Ring	49.04	49.04
18.00	Parts	8C8729	Bolt	10.51	189.18
8.00	Parts	3S2708	Pin	5.62	44.96
2.00	Parts	0054834	Cone	48.02	96.04
1.00	Parts	2322303	Adapter	330.29	330.29
1.00	Parts	3T5807	Slinger	81.91	81.91
1.00	Parts	1914917	Shaft-Sun Ge	1,600.82	1,600.82
1.00	Parts	1937367	Shaft-Sun Ge	1,956.36	1,956.36
	Labor		Labor		24,831.00
SC00523831-011 Rebearing & Reseal - Final Drive & Brake				Parts	9,448.00
				Labor	24,831.00
				Misc	
				Segment Subtotal:	34,279.00

SC00523831-016 Remove & Install - Wiring Harness					
Customer complaint: repair c-frame harness					
Resultant damage: na					
Cause of failure: newer number of harness					
Repair process comments: Robert had a harness, I installed it with new plate up front on the tower,, hyd. were calibrated and valve cal. completed					

Customer PO	Customer EQ	Model	Serial Number	Equipment ID	Segment SMU
SC00523831	13-19-48	D6N	SGG01148	D5757	6,245

Quantity	Type	Part Number	Description	Unit Price	Amount
1.00	Parts	4758472	Harness As	1,690.34	1,690.34
	Labor		Labor		1,088.75
SC00523831-016 Remove & Install - Wiring Harness				Parts	1,690.34
				Labor	1,088.75
				Misc	
				Segment Subtotal:	2,779.09

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SC00523831-017 Remove & Install - Eng Oil Pan

Customer complaint: repaint oil pan

Resultant damage: bare aluminum

Cause of failure: age

Repair process comments: they wanted the oil pan repainted to prevent corrosion , I drained the oil, cleaned out dirt under the rear of the pan, removed the pan, cleaned up, installed with new gasket and torqued the bolts replaced the drain hose, filled with oil replaced the oil filter, replaced the crank case breather filter, new tube from valve cover to filter

Customer PO	Customer EQ	Model	Serial Number	Equipment ID	Segment SMU
SC00523831	13-19-48	D6N	SGG01148	D5757	6,245
Quantity	Type	Part Number	Description	Unit Price	Amount
1.00	Parts	2759884	Gasket	111.42	111.42
1.00	Parts	6I4681	Gasket	1.28	1.28
1.00	Parts	3K0360	Seal	1.49	1.49
1.00	Parts	4621171	Filter-Lube	12.51	12.51
1.00	Parts	4903042	Hose As.	59.74	59.74
1.00	Parts	6I4681	Gasket	1.31	1.31
1.00	Parts	3K0360	Seal	1.52	1.52
1.00	Parts	6V7238	Valve	35.06	35.06
1.00	Parts	3608958	Filter Gp	103.44	103.44
1.00	Parts	4621171	Filter-Lube	12.75	12.75
1.00	Parts	4794131	Element-Sep	27.57	27.57
	Labor		Labor		1,761.75
SC00523831-017 Remove & Install - Eng Oil Pan				Parts	368.09
				Labor	1,761.75
				Misc	
				Segment Subtotal:	2,129.84

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SC00523831-018 Repair - Cylinder Groups

Customer complaint: bearings failed

Resultant damage: broken

Cause of failure: time/lack of grease

Repair process comments: one bearing was broken on angle cylinder, removed the cylinders ordered parts, Andy installed the parts, I installed new barrel end pins, new spacers, installed and greased the cylinders

Customer PO	Customer EQ	Model	Serial Number	Equipment ID	Segment SMU
SC00523831	13-19-48	D6N	SGG01148	D5757	6,245

Quantity	Type	Part Number	Description	Unit Price	Amount
3.00	Parts	3G8047	Grommet	40.70	122.10
4.00	Parts	2374860	Bearing-Slf	179.80	719.20
1.00	Parts	6V1249	Grommet	23.17	23.17
2.00	Parts	1J6472	Ring	19.85	39.70
2.00	Parts	3B6552	Adapter-Elbo	5.29	10.58
50.00	Parts	6V9746	Seal-O-Ring-	1.55	77.50
50.00	Parts	6V8397	Seal	1.37	68.50
50.00	Parts	6V8398	Seal O Ring	1.40	70.00
	Labor		Labor		511.50

SC00523831-018 Repair - Cylinder Groups

Parts	1,130.75
Labor	511.50
Misc	
Segment Subtotal:	1,642.25

SC00523831-021 Apply - Promotion

UWR applied using managed account rebuild credit per [REDACTED]

Customer PO	Customer EQ	Model	Serial Number	Equipment ID	Segment SMU
SC00523831	13-19-48	D6N	SGG01148	D5757	6,245

Quantity	Type	Part Number	Description	Unit Price	Amount
-1.00	Misc	UWR	FOC-MLP=9660-10	3,306.50	-3,306.50

SC00523831-021 Apply - Promotion

Parts	
Labor	
Misc	-3,306.50
Segment Subtotal:	-3,306.50