

ASN CONSTRUCTORS
4816 AMBER VALLEY PARKWAY, STE 100
FARGO ND 58104

MWCE TRUCKING *REPRINT*

06/01/26 21:03:21 (B) 01

7171051 7019971603 W00471T6

ASN CONSTRUCTORS
4816 AMBER VALLEY PARKWAY, STE 100
FARGO ND 58104

W40261

AIB

STK#/FLEET#	HRS	PIN/EIN	WARRANTY DATE	HRS
Z051422 ADTS	X	1DW460PAVRFB08755	10/25/25	1000
UNIT#AD-4615 460P		RG6135U050658	07/25/26	8000 PR

SEGMENT# 1 C TRX01 NA 05/28/26 05/29/26 05/28/26

B08755- 460P- W FARGO>MH

CONDITION:

B08755- 460P- W FARGO>MH

PICK UP MACHINE ON COUNTY ROAD 20, BETWEEN 105TH ST N AND
93RD ST N IN FARGO.

COORDINATES: 46.93475, -96.961028

SITE CONTACT: BIANCA 714-335-8218

SHOP CONTACT: SAMANTHA 701-318-2551

ADDITIONAL DESCRIPTION:

18 mi.

24309054

***** WORK ORDER TOTALS *****		
	INTERNAL	CUSTOMER
CT-IN HAUL	412.00	
CT-PERMIT	30.00	
INTERNAL TOTAL	442.00	

ASN CONSTRUCTORS
4816 AMBER VALLEY PARKWAY, STE 100
FARGO ND 58104

MWCE TRUCKING *REPRINT*

08/18/26 21:06:00 (B) 01

7171051 7019971603 W01230T6

ASN CONSTRUCTORS
4816 AMBER VALLEY PARKWAY, STE 100
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HEAVY HAUL W40594

AIB

STK#/FLEET#	HRS	PIN/EIN	WARRANTY DATE	HRS
Z051422 ADTS	X	1DW460PAVRFB08755	10/25/25	1000
UNIT#AD-4615 460P		RG6135U050658	07/25/26	8000 PR

SEGMENT# 1 C 60C29 NA 08/07/26 08/18/26 08/07/26

B08798- 460P- MH>W FARGO

CONDITION:

B08798- 460P- MH>W FARGO

Haul Date Window - ASAP to -

Pickup Location/Address

*RDO Equipment

2960 34th St S

Moorhead, MN 56560

Delivery Location/Address

*46.74641 N, 96.93710 W

South of Horace ND, West on 100th Ave past county road 17

Other Info/Notes -

Additional Customer Contact - Bianca Kibby - 714-335-8218

Store Work Order # - W40594-16

Other Billing GL - 24309054

Machine Width -

Winch On: Y/N -

REQ: DUSTIN

24309054

***** WORK ORDER TOTALS *****

	INTERNAL	CUSTOMER
CT-VENDOR HAUL	715.39	
INTERNAL TOTAL	715.39	



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2960 34th Street S
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Fax: 701-526-2201

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Date 08/02/24 Time 21:14:33 (B) Page 01

Account No. 7171051 Phone No. 7019971603 Invoice No. W2782954

Ship Via Purchase Order WO3533-PO 187

Tax Exemption Number Federal ID Number

Salesperson
BNF

SERVICE INVOICE

STK#/FLEET#	HRS	PIN/EIN	WARRANTY DATE	HRS
Z051422 ADTS	1	1DW460PAVRFB08755	07/26/25	
UNIT#AD-4615 460P		E RG6135U050658		

** Buy parts online and view your invoices at RDOequipment.com/account.

SEGMENT# 1 C BNF01 10-130-080 07/17/24 07/23/24

TAILGATE ASSEMBLY, REMOVAL

CONDITION:

REMOVE TAILGATE

CORRECTION:

Removed endgate.

Removed arms, labeled and stored.

10401099

LABOR	950.00
SEGMENT TOTAL==>	950.00

***** WORK ORDER TOTALS *****

LABOR	950.00
TOTAL DUE RDO	950.00

+-----+
| Payments are due on your RDO account 30 days from the invoice date |
+-----+

PLEASE REMIT TO: RDO EQUIPMENT CO.
P.O. BOX 7160
FARGO, ND 58106-7160

Thank you for your business



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Date	Time	Page
08/08/24	21:31:11 (B)	01

Account No.	Phone No.	Invoice No.
7171051	7019971603	W2784654

Ship Via Purchase Order
WO3658/PO 187

Tax Exemption Number Federal ID Number

Salesperson
BNF / K31

SERVICE INVOICE

STK#/FLEET#	HRS	PIN/EIN	WARRANTY DATE	HRS
Z051422 ADTS	1	1DW460PAVRFB08755	07/26/25	
UNIT#AD-4615 460P		E RG6135U050658		

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SEGMENT# 1 C TU901 NA 07/18/24 07/23/24

Weld on Sideboards

CORRECTION:

- Grabbed haul truck from yard.
- Brought in steel needed for welding purposes.
- Positioned truck for safe access with ladders and man lift.
- Ground and prepped all areas needed in bed of truck.
- Ground and prepped all areas needed on flat steel extensions and headache rack pieces.
- Used hoist and positioned all steel level vertically and horizontally with truck bed lines.
- Tack welded all items in place to ensure proper fitments.
- Created gusset plates for inside of bed rails, head ache rack to box, and rails to headache rack.
- Welded all items in place.
- Removed all tooling used to performed job.
- Parked truck as it is ready for paint.
- Cleaned area and tooling used.

TU901

VVVVVVVV

Prep machine with draped polly
Wipe down side walls to be painted with brake clean
Primer coat applied/dried overnight
Construction Yellow coat applied
Machine wiped down post painting
Touch up spot coat applied to area(s) as needed

CONTINUED ON PAGE 02

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Z051422 ADTS	1	1DW460PAVRFB08755	07/26/25	
UNIT#AD-4615 460P		E RG6135U050658		
OUTPT	Welding		1	
		PARTS		4500.00
		LABOR		7800.00
10401099		SEGMENT TOTAL==>		12300.00

***** WORK ORDER TOTALS *****

PARTS	4500.00
LABOR	7800.00
SUB TOTAL==>	12300.00
CLAY CO County	22.50
MN STATE TAX	309.38
MOORHEAD City	22.50
TOTAL DUE RDO	12654.38

+-----+
| Payments are due on your RDO account 30 days from the invoice date |
+-----+

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W99/KFX	NA	
Tax Exemption Number	Federal ID Number	

Salesperson
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SERVICE INVOICE

STK#/FLEET#	HRS	PIN/EIN	WARRANTY DATE	HRS
Z051422 ADTS	12	1DW460PAVRFB08755	07/26/25	1000
UNIT#AD-4615 460P	E	RG6135U050658	07/25/26	8000

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SEGMENT# 1 C BLM01 RDO-130-DIAG 08/13/24 08/13/24
CHASSIS / FRAME / HITCHES DIAGNOSTICS

CONDITION:

Machine has vibration at idle through most rpm ranges.
Checked other haul trucks and this one is much more
noticeable.

REPAIR:

- Started machine and when at idle 900rpm the cab is shaking
excessively through operators seat and outside mirrors.
- There is also a secondary issue with the machine when at
wide open throttle it will surge violently and does not
come out of it.
- Checked for any codes and there were no codes.
- Checked dtac cases and solutions and did not find any
relevant
- Checked Cab mounts and they were all tight.
- Opened engine cooling doors and checked engine mounts.
- Engine mounts were good and tight. Tried tightening them
more with 3/4" impact and they would not move.
- Removed cab mounting hardware and tilted cab assembly.
- Checked drive shaft bolt torque and they were good and
drive shaft appeared seated all the way.
- Checked torsional dampener and visually it looks fine.
- greased driveshaft and ran the machine again.
- There was no change in the vibration.
- Created dtac case 2992134 and informed them on both
issues.

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UNIT#AD-4615 460P	E	RG6135U050658	07/25/26	8000

- Dtac started with diagnosing the engine issue.
- Connected to the machine and updated the new available software versions.
- Ran machine and the software did not change any of the issues.
- Started service advisor job 4698121 and uploaded a cold soak recording of the machine parameters.
- Uploaded video of the engine when it is surging.
- Case was transferred to power systems.
- Performed harness diagnostic test no issues were found.
- Had to go through solutions and it to get the compression test in service advisor to work.
- Took cylinder cutout tests three times and different throttle positions.
- Took Recordings of ecu all parameters and ran machine with the surging occurring.
- Uploaded all items to service advisor job and updated dtac case.
- Dtac went through recordings and was advised to find an ecu to donate to the machine.
- Did not have any machines around that had the same ecu. a new ecu was installed. This still had no effect on what was happening with the machine.
- After updating dtac they advised that i flush the injection system 3 times and if there is no change proceed with replacing the injectors.
- When replacing the injectors found that the timing pin when engine was on #1tdc did not fit into the camshaft slot but the injector setting side did.
- Was advised to reset camshaft position and continue with

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UNIT#AD-4615 460P	E	RG6135U050658	07/25/26	8000

injector replacement.

-Got all injectors replaced and calibrated. Ran the machine and there was still no change at all in the surging at wide open throttle and the vibration at idle.

-Performed a second set of cut out tests and added to the service advisor job. Dtac said that the cutout tests are now where they want to see them after injector replacement.

-Took another machine recording of ecu parameters and uploaded.

-At this time dtac also advised to replace the air intake sensor.

-Checked over entire machine harness and connectors and they are all good and connected.

-Disconnected the drive shaft from the engine side and ran the machine.

-With the driveshaft disconnected the machine does not vibrate at all.

-Updated case on the vibration and as far as the engine was advised to check for air leaks on the intake side.

-Used charge air cooler test kit and pressurized intake system from cooler back through turbos.

-Had to make a tool in order to get the pressure to hold in the system.

-Installed plug in turbo inlet.

-Pressurized system to about 20-25psi sprayed down everything with soapy water.

-Searched over machine for quite some time. After a bit found that there was a very tiny pinhole in the outlet pipe of the turbo on the weld.

-Replaced the pipe and ran the machine again. There was no

CONTINUED ON PAGE 04

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Z051422 ADTS	12	1DW460PAVRFB08755	07/26/25	1000
UNIT#AD-4615 460P	E	RG6135U050658	07/25/26	8000

change at all.

-Replaced engine to transmission drive shaft.

-Ran machine with driveshaft reconnected and the machine started vibrating again.

-Updated case.

-Tried running machine again the next day and it was working fine and not surging anymore.

-Captured a recording when it was working properly and updated dtac case for them to compare when it was doing the surging to when it was not.

-They noticed issues with the egr not getting to temp and the actuator opening when its not being commanded to. They advised checking both components and connectors.

-Pulled off both components and checked for broken shaft and both connectors.

-All appeared good.

-Had another 460 in the shop with the same components that were known good.

-Remove air throttle and egr valve from second machine and installed on the machine with the issues.

-Calibrated components to the machine.

-Ran machine and there is no longer any surging at wot.

-Ran machine multiple times throughout the day and it did not act up.

-Ordered new egr valve and air throttle actuator to install.

-Installed the new parts and the machine is running properly and is not surging anymore.

-Updated dtac case and was transferred to the ADT team to resolve the vibration issue.

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SERVICE INVOICE

STK#/FLEET#	HRS	PIN/EIN	WARRANTY DATE	HRS
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UNIT#AD-4615 460P	E	RG6135U050658	07/25/26	8000
-Spoke with dtac over the phone on what is happening with the machine and possible solutions.				
-Dtac advised rotating the torsional dampener 90' three times to different positions and seeing if the vibration gets any better.				
-Rotated torsional 90 degrees and ran machine. there was no change in vibration.				
-Did this a second time and still no change.				
-Did it a third time and ran the machine. there seemed to be a pretty noticeable change in the vibration but still is excessive.				
-Ordered and installed a new torsional isolator.				
-Ran machine with new isolator installed and there is no longer any vibration.				
-Assembled machine back together and updated dtac case.				
-Checked over machine and made sure everything was back together and it was working properly.				
AT315231	TEST/MEASURE SU	1	Warr/Int	Warr/Int
	Test/Measure Supply Item			
AT346594	KIT	1	Warr/Int	Warr/Int
FRT	SHIP/HANDLING	1	Warr/Int	Warr/Int
			PARTS	Warr/Int
			LABOR	Warr/Int
10501054 26106054			SEGMENT TOTAL==>	Warr/Int

SEGMENT# 2 C BLM01 10-040-030 08/13/24 08/13/24
ENGINE CONTROL UNIT (ECU), REMOVE AND REPLACE 2.25 HRS

DIAGNOSTICS:

Took multiple recordings during diagnostics for dtac on different engine parameters and was advised to donate

CONTINUED ON PAGE 06

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UNIT#AD-4615 460P	E	RG6135U050658	07/25/26	8000

another ecu. There was no other ecu available to donate
that matched around. Needed to install a new one.

REPAIR:

- Raised cab assembly.
- Connected to machine and started ecu reprogram while
connected to old ecu to save parameters.
- Disconnected ecu from machine and removed.
- Installed new ecu.
- Installed harness.
- Finished with reprogramming.
- Ran machine and checked for any codes.

ADDITIONAL DESCRIPTION:

Key Part: DZ115244
General Repair (Fail) Area: 1675 System Controls
Failure Type Code:
DTAC Case / Solution #: DTAC-2992134
Diagnostic Hours:

CRDZ115244	Engine Controll	1-	Warranty	Warranty
DZ115244	Engine Controll	1	Warranty	Warranty
	Engine Controller			
CRDZ115244	Engine Controll		Warranty	Warranty
			PARTS	Warranty
			LABOR	Warranty
10501054		SEGMENT TOTAL==>		Warranty

SEGMENT# 3 C BLM01 10-030-055 08/13/24 08/13/24
FUEL INJECTORS, REMOVE AND REPLACE

14.50 HRS

CONDITION:

Remove and replace all fuel injectors.

DIAGNOSTICS:

CONTINUED ON PAGE 07

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After providing dtac with multiple cylinder cut out tests
they advised on replacing injectors.

REPAIR:

- Removed intake pipe.
- Disconnected harness from valve cover.
- Removed rocker covers.
- Disconnected injector harness.
- Removed rocker arm riser
- Pinned and locked cam and crank at number #1
- ** (when the crank was pinned at number 1 tried to put the adjustment tool in the cam slot and it did not fit. if you used the injector setting it would fit but the TDC side would not. Updated dtac and was advised to re clock the front gears and set backlash.)
- Loosened rocker arms and removed both halves.
- Removed injectors
- Assembled new injectors.
- Installed and torqued new injectors.
- Installed rocker arm assemblies with new hardware and torqued.
- Went through procedure and set all injector preloads and valves.
- Installed rocker arm riser.
- Installed access covers.
- Installed harness.
- Installed intake pipe.
- Connected to the machine with service advisor.
- Calibrated the new injectors.
- Ran machine and checked operation.

ADDITIONAL DESCRIPTION:

CONTINUED ON PAGE 08

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UNIT#AD-4615 460P	E	RG6135U050658	07/25/26	8000
Key Part: RE560656				
General Repair (Fail) Area: 0400C Engine				
6135HDW21-DZ125561-ETN277390 6135HDW21				
Failure Type Code:				
DTAC Case / Solution #:DTAC-2992134				
Diagnostic Hours:				
CRRE560656	Electronic Unit	6-	Warranty	Warranty
RE560656	Electronic Unit	6 N	Warranty	Warranty
	Electronic Unit Injector			
CRRE560656	Electronic Unit		Warranty	Warranty
R114083	SCREW	6	Warranty	Warranty
R528578	CAP SCREW	12 N	Warranty	Warranty
R529115	Gasket	1	Warranty	Warranty
R529889	Gasket	1 S	Warranty	Warranty
R531581	Gasket	1	Warranty	Warranty
R531582	Gasket	1	Warranty	Warranty
R535377	SCREW	5 N	Warranty	Warranty
			PARTS	Warranty
			LABOR	Warranty
10501054		SEGMENT TOTAL==>		Warranty

SEGMENT# 4 C BLM01 10-030-161 08/13/24 08/13/24
FUEL FILTER(S), R&R 1.00 HRS

CONDITION:

Replace fuel filters per service advisor before flush procedure.

DIAGNOSTICS:

Dtac advised to flush machine injectors before proceeding on replacing them.

REPAIR:

CONTINUED ON PAGE 09

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SERVICE INVOICE

STK#/FLEET#	HRS	PIN/EIN	WARRANTY DATE	HRS
Z051422 ADTS	12	1DW460PAVRFB08755	07/26/25	1000
UNIT#AD-4615 460P	E	RG6135U050658	07/25/26	8000

-Drained filters.
-Removed both Primary and secondary filter. Auxiliary
filter was bypassed at this time for flush procedure.
-Installed new filters.

ADDITIONAL DESCRIPTION:

Key Part: RE560656
General Repair (Fail) Area: 0400C Engine
6135HDW21-DZ125561-ETN277390 6135HDW21
Failure Type Code:
DTAC Case / Solution #:DTAC-2992134
Diagnostic Hours:

DZ112919	FUEL FILTER	1	Warranty	Warranty
DZ130550	FILTER ELEMENT	1	Warranty	Warranty
			PARTS	Warranty
			LABOR	Warranty
10501054		SEGMENT TOTAL==>		Warranty

SEGMENT# 5 C BLM01 NA 08/13/24 08/13/24
Flush Injectors

CONDITION:

Dtac recommended flushing injectors 3 times. then replacing
all injectors if issue does not clear up.

DIAGNOSTICS:

Machine is running rough and surging at wot

REPAIR:

-Hooked up flush system in line with filter bases.
-Filled canister with flush solution.
-Installed new filter.
-Ran machine through full canister of flush.
-Checked engine performance and there was still no change

CONTINUED ON PAGE 10

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Z051422 ADTS	12	1DW460PAVRFB08755	07/26/25	1000
UNIT#AD-4615 460P	E	RG6135U050658	07/25/26	8000

in operation.

-Repeated process two more times through full canisters of
flush.

-Connected machine back normally and removed flush
canister.

-Ran machine and operated for some time.

-After three flushes there was no change in engine
operation and it was still surging at wot.

-Updated dtac case with results and proceeded replacing
injectors.

ADDITIONAL DESCRIPTION:

Key Part: RE560656

General Repair (Fail) Area: 0400C Engine

6135HDW21-DZ125561-ETN277390 6135HDW21

Failure Type Code:

DTAC Case / Solution #:DTAC-2992134

Diagnostic Hours:

SW10967P1	FILTER ELEMENT	1	Warranty	Warranty
TY27830	FUEL CONDITONE	1	Warranty	Warranty

Fuel Conditioner

PARTS Warranty

LABOR Warranty

10501054

SEGMENT TOTAL==> Warranty

SEGMENT# 6 C BLM01 10-020-035 08/13/24 08/13/24

UPPER TIMING COVER GASKET, REMOVE AND REPLACE 7.25 HRS

CONDITION:

Rotate camshaft and adjust front gear backlash.

DIAGNOSTICS:

Updated dtac case with findings of the camshaft being

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shifted and not allowing timing pin to insert in groove.
and was advised to re set camshaft and gear backlash.

REPAIR:

- Removed boots from intake pipe.
- Removed intake pipe half.
- Removed mounting bracket.
- Removed front upper timing access cover.
- Removed camshaft bolts.
- Rotated and set camshaft with timing pin inserted.
- Loosened idler gear hardware.
- Inserted feeler gauges and set backlash.
- Installed new hardware and torqued idler gear and camshaft gear.
- Installed timing cover.
- Installed mounting bracket.
- Installed intake pipe.
- Ran machine and checked operation.

ADDITIONAL DESCRIPTION:

Key Part: R534321
General Repair (Fail) Area: 0400C Engine
6135HDW21-DZ125561-ETN277390 6135HDW21
Failure Type Code:
DTAC Case / Solution #:DTAC-2992134
Diagnostic Hours:

10501054

LABOR	Warranty
SEGMENT TOTAL==>	Warranty

SEGMENT# 7 C BLM01 01675A072 08/13/24 08/13/24
AIR INTAKE PRESSURE SENSOR

2.00 HRS

CONDITION:

CONTINUED ON PAGE 12

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Z051422 ADTS	12	1DW460PAVRFB08755	07/26/25	1000
UNIT#AD-4615 460P	E	RG6135U050658	07/25/26	8000

Remove and replace air intake mass air flow sensor.

DIAGNOSTICS:

After looking at the recordings dtac advised replacing the mass air flow sensor.

REPAIR:

- Disconnected harness and clamps.
- Removed sensor.
- Installed new sensor.
- Installed harness and clamps.
- Ran machine and checked operation.

ADDITIONAL DESCRIPTION:

Key Part: DZ109378
General Repair (Fail) Area: 0400C Engine
6135HDW21-DZ125561-ETN277390 6135HDW21
Failure Type Code:
DTAC Case / Solution #:DTAC-2992134
Diagnostic Hours:
DZ109378

SENSOR	1	Warranty	Warranty
		PARTS	Warranty
		LABOR	Warranty
10501054	SEGMENT TOTAL==>		Warranty

SEGMENT# 8 C BLM01 RDO-050-047 08/13/24 08/13/24
ENGINE TO TRANSMISSION DRIVESHAFT, R&R 3.50 HRS

CONDITION:

Remove and replace Engine to transmission drive shaft.

DIAGNOSTICS:

With the drive shaft disconnected the machine no longer vibrates. its suspected that the drive shaft is out of balance.

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Z051422 ADTS	12	1DW460PAVRFB08755	07/26/25	1000
UNIT#AD-4615 460P	E	RG6135U050658	07/25/26	8000

REPAIR:

- Raised cab.
- Removed drive shaft from transmission.
- Removed drive shaft from engine.
- Installed new drive shaft and connected.
- Ran machine and checked operation.

ADDITIONAL DESCRIPTION:

Key Part: AT472523
General Repair (Fail) Area: 0325 Input Drive Shafts and
U-Joints
Failure Type Code:
DTAC Case / Solution #:DTAC-2992134
Diagnostic Hours:
AT472523 Shaft 1 S Warranty Warranty
PARTS Warranty
LABOR Warranty
10501054 SEGMENT TOTAL==> Warranty

SEGMENT# 9 C BLM01 10-020-160 08/13/24 08/13/24
AIR INTAKE HOSES, R&R 1.00 HRS

CONDITION:

Replace air intake elbow. AT400918

DIAGNOSTICS:

Dtac had advised checking for air leaks on the machine.
After searching machine did find an air leak on the weld
for the turbo outlet pipe.

REPAIR:

- Disconnected intake book.
- Removed elbow clamp.
- Cleaned outlet.

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UNIT#AD-4615 460P	E	RG6135U050658	07/25/26	8000

-Installed new pipe.
-Installed intake boot.
-Ran machine and checked operation.

ADDITIONAL DESCRIPTION:

Key Part: AT400918
General Repair (Fail) Area: 0510 Engine Cooling Systems
Failure Type Code:
DTAC Case / Solution #:DTAC-2992134
Diagnostic Hours:

AT400918	Tube	1 N	Warranty	Warranty
FRT	SHIP/HANDLING	2	Warranty	Warranty
RE28139	CLAMP	1 N	Warranty	Warranty
RE527106	CLAMP	1	Warranty	Warranty
R522023	GASKET	1	Warranty	Warranty
			PARTS	Warranty
			LABOR	Warranty
10501054		SEGMENT TOTAL==>		Warranty

SEGMENT#10 C BLM01 00414A033 08/13/24 08/13/24
AIR THROTTLE VALVE 3.00 HRS

CONDITION:

Remove and replace air throttle actuator.

DIAGNOSTICS:

After multiple recordings and dtac looking over the results
they were seeing variances in the air throttle and egr
valve that were not right and was advised to check and
replace .

REPAIR:

-Disconnected harness.
-Removed intake boot.

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UNIT#AD-4615 460P	E	RG6135U050658	07/25/26	8000

- Removed intake pipe and air throttle actuator.
- Installed new actuator and torqued.
- Installed intake boot.
- Connected to machine with service advisor.
- Calibrated new throttle actuator.
- Ran machine and checked operation.

ADDITIONAL DESCRIPTION:

Key Part: DZ123597
General Repair (Fail) Area: 0400C Engine
6135HDW21-DZ125561-ETN277390 6135HDW21
Failure Type Code:
DTAC Case / Solution #:DTAC-2992134
Diagnostic Hours:

CRDZ123597	Valve	1-	Warranty	Warranty
DZ123597	Valve	1	Warranty	Warranty
CRDZ123597	Valve		Warranty	Warranty
			PARTS	Warranty
			LABOR	Warranty
10501054		SEGMENT TOTAL==>		Warranty

SEGMENT#11 C BLM01 10-020-380 08/13/24 08/13/24
EGR VALVE, REMOVE AND REPLACE 2.25 HRS

CONDITION:

Remove and replace egr valve.

DIAGNOSTICS:

It is suspected that the egr valve is not opening and closing properly.

REPAIR:

- Disconnected harness from egr valve.
- Removed recirculation pipes and egr valve.

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Z051422 ADTS	12	1DW460PAVRFB08755	07/26/25	1000
UNIT#AD-4615 460P	E	RG6135U050658	07/25/26	8000

- Cleaned up surfaces.
- Installed and torqued new valve.
- Installed harness.
- Connected to machine with service advisor.
- Relearned egr valve.
- Ran machine and checked for any codes.

ADDITIONAL DESCRIPTION:

Key Part: DZ130422
General Repair (Fail) Area: 0400C Engine
6135HDW21-DZ125561-ETN277390 6135HDW21
Failure Type Code:
DTAC Case / Solution #:DTAC-2992134
Diagnostic Hours:

CRDZ130422	Exhaust Gas Rec	1-	Warranty	Warranty
DZ130422	EXHAUST GAS REC	1	Warranty	Warranty
	Exhaust Gas Recycling Valve			
CRDZ130422	Exhaust Gas Rec		Warranty	Warranty
R526831	GASKET	2	Warranty	Warranty
			PARTS	Warranty
			LABOR	Warranty
10501054		SEGMENT TOTAL==>		Warranty

SEGMENT#12 C TGP01 00401A080 08/13/24 08/13/24
WARRANTY - Deere Machine Warranty .01 HRS

CONDITION:

Replace torsional dampener

DIAGNOSTICS:

Torsional dampener out of balance.

REPAIR:

Tilted cab.

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UNIT#AD-4615 460P	E	RG6135U050658	07/25/26	8000

Disconnected drive shaft
Removed and replaced torsional dampener
Installed drive shaft
Put cab back in operational position.

ADDITIONAL DESCRIPTION:

Failed Part #: AT530240
Failed/Function Area: engine
Failed Type Code:
DTAC Case / Solution #:
Diagnostic Hours:

Failed Serial # (for REMAN / Major components):
New Serial #:

AT530240	Torsional Damper	1 N Warranty	Warranty
----------	------------------	--------------	----------

Torsional Damper

PARTS Warranty

LABOR Warranty

10501054

SEGMENT TOTAL==> Warranty

SEGMENT#13 C BLM01 01671A002	08/13/24 08/13/24	2.00 HRS
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BATTERIES, REPLACE-2

CONDITION:

Remove and replace batteries.

DIAGNOSTICS:

-Tried starting machine one morning and the batteries were completely dead.
-Charged the batteries for over an hour and machine would just click.
-Let batteries charge for a couple hours and randomly got the machine to start.

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UNIT#AD-4615 460P	E	RG6135U050658	07/25/26	8000

- Checked charging system and it was charging.
- Let machine run for about 2hrs.
- Turned machine off and tried restarting.
- Machine would not start.
- Load tested batteries, failed load test, found less than 8v on each battery.

REPAIR:

- Removed battery cover.
- Removed battery cables.
- Removed battery hold down.
- Removed and installed two new batteries.
- Installed hold down.
- Installed battery cables.
- Installed battery cover.
- Ran machine and checked operation.

ADDITIONAL DESCRIPTION:

Key Part: AT515116
General Repair (Fail) Area: 1671 Batteries, Support and Cables

Failure Type Code:

DTAC Case / Solution #:DTAC-2992134

Diagnostic Hours:

CRTY23020B	WET CHARGED BAT	2-	Warr/Int	Warr/Int
TY23020B	BCI 4D/1400 CCA	2	Warr/Int	Warr/Int

Wet Charged Battery

CRTY23020B	WET CHARGED BAT	Warr/Int	Warr/Int
		PARTS	Warr/Int
		LABOR	Warr/Int
10501054 74301454	SEGMENT TOTAL==>		Warr/Int

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SEGMENT#14 C TU901 RDO-080-403	08/13/24	08/13/24		

WASH EQUIPMENT 2.00 HRS

CONDITION:

Machine needs wash after repairs. Please clean cab out as well.

ADDITIONAL DESCRIPTION:

Wash Code 1
Clear Debris
Windshields - Exterior
Rinse Exterior
Degreaser as needed
Quick wash
Rinse
Wash Code 4
Windshields - Interior
Clean Debris
Vacuum

	LABOR	Internal
74301454	SEGMENT TOTAL==>	Internal

***** WORK ORDER TOTALS *****		
	INTERNAL	CUSTOMER
PARTS	Warr/Int	
LABOR	Warr/Int	
HAUL CHARGE	Warr/Int	
INTERNAL TOTAL	Warr/Int	

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SEGMENT# 1 C BLM01 RDO-130-DIAG 11/14/24 08/13/24
CHASSIS / FRAME / HITCHES DIAGNOSTICS

CONDITION:

Machine has vibration at idle through most rpm ranges.
Checked other haul trucks and this one is much more
noticeable.

REPAIR:

- Started machine and when at idle 900rpm the cab is shaking
excessively through operators seat and outside mirrors.
- There is also a secondary issue with the machine when at
wide open throttle it will surge violently and does not
come out of it.
- Checked for any codes and there were no codes.
- Checked dtac cases and solutions and did not find any
relevant
- Checked Cab mounts and they were all tight.
- Opened engine cooling doors and checked engine mounts.
- Engine mounts were good and tight. Tried tightening them
more with 3/4" impact and they would not move.
- Removed cab mounting hardware and tilted cab assembly.
- Checked drive shaft bolt torque and they were good and
drive shaft appeared seated all the way.
- Checked torsional dampener and visually it looks fine.
- greased driveshaft and ran the machine again.
- There was no change in the vibration.
- Created dtac case 2992134 and informed them on both
issues.

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Z051422 ADTS	12	1DW460PAVRFB08755	07/26/25	1000
UNIT#AD-4615 460P	E	RG6135U050658	07/25/26	8000

- Dtac started with diagnosing the engine issue.
- Connected to the machine and updated the new available software versions.
- Ran machine and the software did not change any of the issues.
- Started service advisor job 4698121 and uploaded a cold soak recording of the machine parameters.
- Uploaded video of the engine when it is surging.
- Case was transferred to power systems.
- Performed harness diagnostic test no issues were found.
- Had to go through solutions and it to get the compression test in service advisor to work.
- Took cylinder cutout tests three times and different throttle positions.
- Took Recordings of ecu all parameters and ran machine with the surging occurring.
- Uploaded all items to service advisor job and updated dtac case.
- Dtac went through recordings and was advised to find an ecu to donate to the machine.
- Did not have any machines around that had the same ecu. a new ecu was installed. This still had no effect on what was happening with the machine.
- After updating dtac they advised that i flush the injection system 3 times and if there is no change proceed with replacing the injectors.
- When replacing the injectors found that the timing pin when engine was on #1tdc did not fit into the camshaft slot but the injector setting side did.
- Was advised to reset camshaft position and continue with

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SERVICE INVOICE

STK#/FLEET#	HRS	PIN/EIN	WARRANTY DATE	HRS
Z051422 ADTS	12	1DW460PAVRFB08755	07/26/25	1000
UNIT#AD-4615 460P	E	RG6135U050658	07/25/26	8000

injector replacement.

-Got all injectors replaced and calibrated. Ran the machine and there was still no change at all in the surging at wide open throttle and the vibration at idle.

-Performed a second set of cut out tests and added to the service advisor job. Dtac said that the cutout tests are now where they want to see them after injector replacement.

-Took another machine recording of ecu parameters and uploaded.

-At this time dtac also advised to replace the air intake sensor.

-Checked over entire machine harness and connectors and they are all good and connected.

-Disconnected the drive shaft from the engine side and ran the machine.

-With the driveshaft disconnected the machine does not vibrate at all.

-Updated case on the vibration and as far as the engine was advised to check for air leaks on the intake side.

-Used charge air cooler test kit and pressurized intake system from cooler back through turbos.

-Had to make a tool in order to get the pressure to hold in the system.

-Installed plug in turbo inlet.

-Pressurized system to about 20-25psi sprayed down everything with soapy water.

-Searched over machine for quite some time. After a bit found that there was a very tiny pinhole in the outlet pipe of the turbo on the weld.

-Replaced the pipe and ran the machine again. There was no

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UNIT#AD-4615 460P	E	RG6135U050658	07/25/26	8000

change at all.

-Replaced engine to transmission drive shaft.

-Ran machine with driveshaft reconnected and the machine started vibrating again.

-Updated case.

-Tried running machine again the next day and it was working fine and not surging anymore.

-Captured a recording when it was working properly and updated dtac case for them to compare when it was doing the surging to when it was not.

-They noticed issues with the egr not getting to temp and the actuator opening when its not being commanded to. They advised checking both components and connectors.

-Pulled off both components and checked for broken shaft and both connectors.

-All appeared good.

-Had another 460 in the shop with the same components that were known good.

-Remove air throttle and egr valve from second machine and installed on the machine with the issues.

-Calibrated components to the machine.

-Ran machine and there is no longer any surging at wot.

-Ran machine multiple times throughout the day and it did not act up.

-Ordered new egr valve and air throttle actuator to install.

-Installed the new parts and the machine is running properly and is not surging anymore.

-Updated dtac case and was transferred to the ADT team to resolve the vibration issue.

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Z051422 ADTS	12	1DW460PAVRFB08755	07/26/25	1000
UNIT#AD-4615 460P	E	RG6135U050658	07/25/26	8000
-Spoke with dtac over the phone on what is happening with the machine and possible solutions.				
-Dtac advised rotating the torsional dampener 90' three times to different positions and seeing if the vibration gets any better.				
-Rotated torsional 90 degrees and ran machine. there was no change in vibration.				
-Did this a second time and still no change.				
-Did it a third time and ran the machine. there seemed to be a pretty noticeable change in the vibration but still is excessive.				
-Ordered and installed a new torsional isolator.				
-Ran machine with new isolator installed and there is no longer any vibration.				
-Assembled machine back together and updated dtac case.				
-Checked over machine and made sure everything was back together and it was working properly.				
AT315231	TEST/MEASURE SU	1	Warr/Int	Warr/Int
	Test/Measure Supply Item			
AT346594	KIT	1	Warr/Int	Warr/Int
FRT	SHIP/HANDLING	1	Warr/Int	Warr/Int
			PARTS	Warr/Int
			LABOR	Warr/Int
10501054 26106054			SEGMENT TOTAL==>	Warr/Int

SEGMENT# 2 C BLM01 10-040-030 11/14/24 08/13/24
ENGINE CONTROL UNIT (ECU), REMOVE AND REPLACE 2.25 HRS

DIAGNOSTICS:

Took multiple recordings during diagnostics for dtac on different engine parameters and was advised to donate

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Z051422 ADTS	12	1DW460PAVRFB08755	07/26/25	1000
UNIT#AD-4615 460P	E	RG6135U050658	07/25/26	8000

another ecu. There was no other ecu available to donate
that matched around. Needed to install a new one.

REPAIR:

- Raised cab assembly.
- Connected to machine and started ecu reprogram while
connected to old ecu to save parameters.
- Disconnected ecu from machine and removed.
- Installed new ecu.
- Installed harness.
- Finished with reprogramming.
- Ran machine and checked for any codes.

ADDITIONAL DESCRIPTION:

Key Part: DZ115244
General Repair (Fail) Area: 1675 System Controls
Failure Type Code:
DTAC Case / Solution #: DTAC-2992134
Diagnostic Hours:

CRDZ115244	Engine Controll	1-	Warranty	Warranty
DZ115244	Engine Controll	1	Warranty	Warranty
	Engine Controller			
CRDZ115244	Engine Controll		Warranty	Warranty
			PARTS	Warranty
			LABOR	Warranty
10501054		SEGMENT TOTAL==>		Warranty

SEGMENT# 3 C BLM01 10-030-055 11/14/24 08/13/24
FUEL INJECTORS, REMOVE AND REPLACE

14.50 HRS

CONDITION:

Remove and replace all fuel injectors.

DIAGNOSTICS:

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UNIT#AD-4615 460P	E	RG6135U050658	07/25/26	8000

After providing dtac with multiple cylinder cut out tests
they advised on replacing injectors.

REPAIR:

- Removed intake pipe.
- Disconnected harness from valve cover.
- Removed rocker covers.
- Disconnected injector harness.
- Removed rocker arm riser
- Pinned and locked cam and crank at number #1
- ** (when the crank was pinned at number 1 tried to put the adjustment tool in the cam slot and it did not fit. if you used the injector setting it would fit but the TDC side would not. Updated dtac and was advised to re clock the front gears and set backlash.)
- Loosened rocker arms and removed both halves.
- Removed injectors
- Assembled new injectors.
- Installed and torqued new injectors.
- Installed rocker arm assemblies with new hardware and torqued.
- Went through procedure and set all injector preloads and valves.
- Installed rocker arm riser.
- Installed access covers.
- Installed harness.
- Installed intake pipe.
- Connected to the machine with service advisor.
- Calibrated the new injectors.
- Ran machine and checked operation.

ADDITIONAL DESCRIPTION:

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Z051422 ADTS	12	1DW460PAVRFB08755	07/26/25	1000
UNIT#AD-4615 460P	E	RG6135U050658	07/25/26	8000
Key Part: RE560656				
General Repair (Fail) Area: 0400C Engine				
6135HDW21-DZ125561-ETN277390 6135HDW21				
Failure Type Code:				
DTAC Case / Solution #:DTAC-2992134				
Diagnostic Hours:				
CRRE560656	Electronic Unit	6-	Warranty	Warranty
RE560656	Electronic Unit	6 N	Warranty	Warranty
	Electronic Unit Injector			
CRRE560656	Electronic Unit		Warranty	Warranty
R114083	SCREW	6	Warranty	Warranty
R528578	CAP SCREW	12 N	Warranty	Warranty
R529115	Gasket	1	Warranty	Warranty
R529889	Gasket	1 S	Warranty	Warranty
R531581	Gasket	1	Warranty	Warranty
R531582	Gasket	1	Warranty	Warranty
R535377	SCREW	5 N	Warranty	Warranty
			PARTS	Warranty
			LABOR	Warranty
10501054		SEGMENT TOTAL==>		Warranty

SEGMENT# 4 C BLM01 10-030-161 11/14/24 08/13/24
FUEL FILTER(S), R&R 1.00 HRS

CONDITION:

Replace fuel filters per service advisor before flush procedure.

DIAGNOSTICS:

Dtac advised to flush machine injectors before proceeding on replacing them.

REPAIR:

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UNIT#AD-4615 460P	E	RG6135U050658	07/25/26	8000

-Drained filters.
-Removed both Primary and secondary filter. Auxiliary
filter was bypassed at this time for flush procedure.
-Installed new filters.

ADDITIONAL DESCRIPTION:

Key Part: RE560656
General Repair (Fail) Area: 0400C Engine
6135HDW21-DZ125561-ETN277390 6135HDW21
Failure Type Code:
DTAC Case / Solution #:DTAC-2992134
Diagnostic Hours:

DZ112919	FUEL FILTER	1	Warranty	Warranty
DZ130550	FILTER ELEMENT	1	Warranty	Warranty
			PARTS	Warranty
			LABOR	Warranty
10501054		SEGMENT TOTAL==>		Warranty

SEGMENT# 5 C BLM01 NA 11/14/24 08/13/24
Flush Injectors

CONDITION:

Dtac recommended flushing injectors 3 times. then replacing
all injectors if issue does not clear up.

DIAGNOSTICS:

Machine is running rough and surging at wot

REPAIR:

-Hooked up flush system in line with filter bases.
-Filled canister with flush solution.
-Installed new filter.
-Ran machine through full canister of flush.
-Checked engine performance and there was still no change

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UNIT#AD-4615 460P	E	RG6135U050658	07/25/26	8000

in operation.

-Repeated process two more times through full canisters of
flush.

-Connected machine back normally and removed flush
canister.

-Ran machine and operated for some time.

-After three flushes there was no change in engine
operation and it was still surging at wot.

-Updated dtac case with results and proceeded replacing
injectors.

ADDITIONAL DESCRIPTION:

Key Part: RE560656

General Repair (Fail) Area: 0400C Engine

6135HDW21-DZ125561-ETN277390 6135HDW21

Failure Type Code:

DTAC Case / Solution #:DTAC-2992134

Diagnostic Hours:

SW10967P1	FILTER ELEMENT	1	Warranty	Warranty
TY27830	FUEL CONDITONE	1	Warranty	Warranty

Fuel Conditioner

PARTS Warranty

LABOR Warranty

10501054

SEGMENT TOTAL==> Warranty

SEGMENT# 6 C BLM01 10-020-035 11/14/24 08/13/24

UPPER TIMING COVER GASKET, REMOVE AND REPLACE 7.25 HRS

CONDITION:

Rotate camshaft and adjust front gear backlash.

DIAGNOSTICS:

Updated dtac case with findings of the camshaft being

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shifted and not allowing timing pin to insert in groove.
and was advised to re set camshaft and gear backlash.

REPAIR:

- Removed boots from intake pipe.
- Removed intake pipe half.
- Removed mounting bracket.
- Removed front upper timing access cover.
- Removed camshaft bolts.
- Rotated and set camshaft with timing pin inserted.
- Loosened idler gear hardware.
- Inserted feeler gauges and set backlash.
- Installed new hardware and torqued idler gear and camshaft gear.
- Installed timing cover.
- Installed mounting bracket.
- Installed intake pipe.
- Ran machine and checked operation.

ADDITIONAL DESCRIPTION:

Key Part: R534321
General Repair (Fail) Area: 0400C Engine
6135HDW21-DZ125561-ETN277390 6135HDW21
Failure Type Code:
DTAC Case / Solution #:DTAC-2992134
Diagnostic Hours:

10501054

LABOR	Warranty
SEGMENT TOTAL==>	Warranty

SEGMENT# 7 C BLM01 01675A072 11/14/24 08/13/24
AIR INTAKE PRESSURE SENSOR

2.00 HRS

CONDITION:

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UNIT#AD-4615 460P	E	RG6135U050658	07/25/26	8000

Remove and replace air intake mass air flow sensor.

DIAGNOSTICS:

After looking at the recordings dtac advised replacing the
mass air flow sensor.

REPAIR:

- Disconnected harness and clamps.
- Removed sensor.
- Installed new sensor.
- Installed harness and clamps.
- Ran machine and checked operation.

ADDITIONAL DESCRIPTION:

Key Part: DZ109378
General Repair (Fail) Area: 0400C Engine
6135HDW21-DZ125561-ETN277390 6135HDW21
Failure Type Code:
DTAC Case / Solution #:DTAC-2992134
Diagnostic Hours:
DZ109378

SENSOR	1	Warranty	Warranty
		PARTS	Warranty
		LABOR	Warranty
10501054	SEGMENT TOTAL==>		Warranty

SEGMENT# 8 C BLM01 RDO-050-047 11/14/24 08/13/24
ENGINE TO TRANSMISSION DRIVESHAFT, R&R 3.50 HRS

CONDITION:

Remove and replace Engine to transmission drive shaft.

DIAGNOSTICS:

With the drive shaft disconnected the machine no longer
vibrates. its suspected that the drive shaft is out of
balance.

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UNIT#AD-4615 460P	E	RG6135U050658	07/25/26	8000

REPAIR:

- Raised cab.
- Removed drive shaft from transmission.
- Removed drive shaft from engine.
- Installed new drive shaft and connected.
- Ran machine and checked operation.

ADDITIONAL DESCRIPTION:

Key Part: AT472523
General Repair (Fail) Area: 0325 Input Drive Shafts and
U-Joints
Failure Type Code:
DTAC Case / Solution #:DTAC-2992134
Diagnostic Hours:
AT472523

Shaft

1 S	Warranty	Warranty
	PARTS	Warranty
	LABOR	Warranty
SEGMENT TOTAL==>		Warranty

10501054

SEGMENT# 9 C BLM01 10-020-160 11/14/24 08/13/24

AIR INTAKE HOSES, R&R

1.00 HRS

CONDITION:

Replace air intake elbow. AT400918

DIAGNOSTICS:

Dtac had advised checking for air leaks on the machine.
After searching machine did find an air leak on the weld
for the turbo outlet pipe.

REPAIR:

- Disconnected intake book.
- Removed elbow clamp.
- Cleaned outlet.

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UNIT#AD-4615 460P	E	RG6135U050658	07/25/26	8000

-Installed new pipe.
-Installed intake boot.
-Ran machine and checked operation.

ADDITIONAL DESCRIPTION:

Key Part: AT400918
General Repair (Fail) Area: 0510 Engine Cooling Systems
Failure Type Code:
DTAC Case / Solution #:DTAC-2992134
Diagnostic Hours:

AT400918	Tube	1 N	Warranty	Warranty
FRT	SHIP/HANDLING	2	Warranty	Warranty
RE28139	CLAMP	1 N	Warranty	Warranty
RE527106	CLAMP	1	Warranty	Warranty
R522023	GASKET	1	Warranty	Warranty
			PARTS	Warranty
			LABOR	Warranty
10501054		SEGMENT TOTAL==>		Warranty

SEGMENT#10 C BLM01 00414A033 11/14/24 08/13/24
AIR THROTTLE VALVE 3.00 HRS

CONDITION:

Remove and replace air throttle actuator.

DIAGNOSTICS:

After multiple recordings and dtac looking over the results
they were seeing variances in the air throttle and egr
valve that were not right and was advised to check and
replace .

REPAIR:

-Disconnected harness.
-Removed intake boot.

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Date	Time	Page
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Account No.	Phone No.	Invoice No.
7171051	7019971603	W3053754

Ship Via	Purchase Order
W28371 FIX	NA

Tax Exemption Number	Federal ID Number

Salesperson
BNF / BNF

SERVICE INVOICE

STK#/FLEET#	HRS	PIN/EIN	WARRANTY DATE	HRS
Z051422 ADTS	12	1DW460PAVRFB08755	07/26/25	1000
UNIT#AD-4615 460P	E	RG6135U050658	07/25/26	8000

- Removed intake pipe and air throttle actuator.
- Installed new actuator and torqued.
- Installed intake boot.
- Connected to machine with service advisor.
- Calibrated new throttle actuator.
- Ran machine and checked operation.

ADDITIONAL DESCRIPTION:

Key Part: DZ123597
General Repair (Fail) Area: 0400C Engine
6135HDW21-DZ125561-ETN277390 6135HDW21
Failure Type Code:
DTAC Case / Solution #:DTAC-2992134
Diagnostic Hours:

CRDZ123597	Valve	1-	Warranty	Warranty
DZ123597	Valve	1	Warranty	Warranty
CRDZ123597	Valve		Warranty	Warranty
			PARTS	Warranty
			LABOR	Warranty
10501054		SEGMENT TOTAL==>		Warranty

SEGMENT#11 C BLM01 10-020-380 11/14/24 08/13/24
EGR VALVE, REMOVE AND REPLACE 2.25 HRS

CONDITION:

Remove and replace egr valve.

DIAGNOSTICS:

It is suspected that the egr valve is not opening and closing properly.

REPAIR:

- Disconnected harness from egr valve.
- Removed recirculation pipes and egr valve.

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SERVICE INVOICE

STK#/FLEET#	HRS	PIN/EIN	WARRANTY DATE	HRS
Z051422 ADTS	12	1DW460PAVRFB08755	07/26/25	1000
UNIT#AD-4615 460P	E	RG6135U050658	07/25/26	8000

-Cleaned up surfaces.
-Installed and torqued new valve.
-Installed harness.
-Connected to machine with service advisor.
-Relearned egr valve.
-Ran machine and checked for any codes.

ADDITIONAL DESCRIPTION:

Key Part: DZ130422
General Repair (Fail) Area: 0400C Engine
6135HDW21-DZ125561-ETN277390 6135HDW21
Failure Type Code:
DTAC Case / Solution #:DTAC-2992134
Diagnostic Hours:

CRDZ130422	Exhaust Gas Rec	1-	Warranty	Warranty
DZ130422	EXHAUST GAS REC	1	Warranty	Warranty
	Exhaust Gas Recycling Valve			
CRDZ130422	Exhaust Gas Rec		Warranty	Warranty
R526831	GASKET	2	Warranty	Warranty
			PARTS	Warranty
			LABOR	Warranty
10501054		SEGMENT TOTAL==>		Warranty

SEGMENT#12 C TGP01 00401A080 11/14/24 08/13/24
WARRANTY - Deere Machine Warranty .01 HRS

CONDITION:

Replace torsional dampener

DIAGNOSTICS:

Torsional dampener out of balance.

REPAIR:

Tilted cab.

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Account No. 7171051 Phone No. 7019971603 Invoice No. W3053754

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SERVICE INVOICE

STK#/FLEET#	HRS	PIN/EIN	WARRANTY DATE	HRS
Z051422 ADTS	12	1DW460PAVRFB08755	07/26/25	1000
UNIT#AD-4615 460P	E	RG6135U050658	07/25/26	8000

Disconnected drive shaft
Removed and replaced torsional dampener
Installed drive shaft
Put cab back in operational position.

ADDITIONAL DESCRIPTION:

Failed Part #: AT530240
Failed/Function Area: engine
Failed Type Code:
DTAC Case / Solution #:
Diagnostic Hours:

Failed Serial # (for REMAN / Major components):
New Serial #:

AT530240	Torsional Damper	1 N	Warranty	Warranty
----------	------------------	-----	----------	----------

Torsional Damper

PARTS Warranty

LABOR Warranty

10501054

SEGMENT TOTAL==> Warranty

SEGMENT#13 C BLM01 01671A002	11/14/24 08/13/24	2.00 HRS
------------------------------	-------------------	----------

BATTERIES, REPLACE-2

CONDITION:

Remove and replace batteries.

DIAGNOSTICS:

-Tried starting machine one morning and the batteries were completely dead.
-Charged the batteries for over an hour and machine would just click.
-Let batteries charge for a couple hours and randomly got the machine to start.

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Date	Time	Page
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SERVICE INVOICE

STK#/FLEET#	HRS	PIN/EIN	WARRANTY DATE	HRS
Z051422 ADTS	12	1DW460PAVRFB08755	07/26/25	1000
UNIT#AD-4615 460P	E	RG6135U050658	07/25/26	8000

- Checked charging system and it was charging.
- Let machine run for about 2hrs.
- Turned machine off and tried restarting.
- Machine would not start.
- Load tested batteries, failed load test, found less than 8v on each battery.

REPAIR:

- Removed battery cover.
- Removed battery cables.
- Removed battery hold down.
- Removed and installed two new batteries.
- Installed hold down.
- Installed battery cables.
- Installed battery cover.
- Ran machine and checked operation.

ADDITIONAL DESCRIPTION:

Key Part: AT515116
General Repair (Fail) Area: 1671 Batteries, Support and Cables

Failure Type Code:

DTAC Case / Solution #:DTAC-2992134

Diagnostic Hours:

CRTY23020B	WET CHARGED BAT	2-	Warr/Int	Warr/Int
TY23020B	BCI 4D/1400 CCA	2	Warr/Int	Warr/Int

Wet Charged Battery

CRTY23020B	WET CHARGED BAT	Warr/Int	Warr/Int
		PARTS	Warr/Int
		LABOR	Warr/Int
10501054 74301454	SEGMENT TOTAL==>		Warr/Int

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Account No. 7171051 Phone No. 7019971603 Invoice No. W3053754

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Tax Exemption Number Federal ID Number

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SERVICE INVOICE

STK#/FLEET#	HRS	PIN/EIN	WARRANTY DATE	HRS
Z051422 ADTS	12	1DW460PAVRFB08755	07/26/25	1000
UNIT#AD-4615 460P	E	RG6135U050658	07/25/26	8000
SEGMENT#14 C TU901 RDO-080-403	11/14/24	08/13/24		

WASH EQUIPMENT 2.00 HRS

CONDITION:

Machine needs wash after repairs. Please clean cab out as well.

ADDITIONAL DESCRIPTION:

Wash Code 1
Clear Debris
Windshields - Exterior
Rinse Exterior
Degreaser as needed
Quick wash
Rinse
Wash Code 4
Windshields - Interior
Clean Debris
Vacuum

74301454

LABOR Internal
SEGMENT TOTAL==> Internal

***** WORK ORDER TOTALS *****

	INTERNAL	CUSTOMER
PARTS	Warr/Int	
LABOR	Warr/Int	
HAUL CHARGE	Warr/Int	
INTERNAL TOTAL	Warr/Int	

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Ship Via **Purchase Order**
WO7300

Tax Exemption Number **Federal ID Number**

Salesperson
JUX

SERVICE INVOICE

STK#/FLEET#	HRS	PIN/EIN	WARRANTY DATE	HRS
Z051422 ADTS	453	1DW460PAVRFB08755	10/25/25	1000
UNIT#AD-4615 460P S		RG6135U050658	07/25/26	8000

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SEGMENT# 1 C SFE01 PM30-0250 11/20/24 11/27/24 11/20/24
INITIAL 500 HOUR SERVICE

CONDITION:

Perform 500 hour service.

REPAIR:

Drained and refill engine oil and replace filter
Replaced final fuel filter
Replaced aux fuel filter with water sep (if equipped)
Replaced primary fuel filter with water separator
Tested hydraulic oil sample
Tested transmission oil sample
Tested axle oil sample
Checked park brake pad wear and lubricate linkage
Checked engine coolant level
Checked hydraulic system oil level
Cleaned dust unloader valve
Checked transmission oil level
Checked air intake hoses and charge air cooler tube couplings
Lubricated greaseable steering cylinder pins
Lubricated tailgate pivots
Lubricated bin pivots
Lubricated lift cylinders
Lubricated art. joint, osc. joint, and through-drive bearing
Inspected automatic lubrication components (if equipped)
Tested engine oil sample
Replaced axle oil filters

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Tax Exemption Number **Federal ID Number**

Salesperson
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SERVICE INVOICE

STK#/FLEET#	HRS	PIN/EIN	WARRANTY DATE	HRS
Z051422 ADTS	453	1DW460PAVRFB08755	10/25/25	1000
UNIT#AD-4615 460P S		RG6135U050658	07/25/26	8000
Performed load sense calibration (cab monitor)				
Ran transmission clutch calibration (cab monitor)				
Replaced primary air cleaner element				
Replaced secondary air cleaner element				
Replaced Cab and Recirc. Filters				
AT191102	FILTER, CABFRESH	1	16.18	16.18
AT307501	FILTER, CABRECIR	1	12.83	12.83
AT315231	TEST/MEASURE SU	6	2.69	16.14
Test/Measure Supply Item				
AT346594	KIT	6	22.73	136.38
AT365869	FILTER, ADTLFUEL	1	52.09	52.09
AT418095	HYDRAULIC FILTE	3	95.62	286.86
Hydraulic Filter				
DZ112918	FILTER ELEMENT	1	114.51	114.51
DZ130550	FILTER ELEMENT	1	112.71	112.71
FRT	SHIP/HANDLING	1	12.00	12.00
RE230985	AIR FILTER	1	82.90	82.90
RE261960	AIR FILTER	1	248.57	248.57
RE572785	OIL FILTER	1	73.51	73.51
TY26682	PLUS-50 TM ENGI	47	5.86	275.42
PLUS-50 II OIL 15W40 CK4/SN				
PARTS				1440.10
LABOR				1023.00
24102054	SEGMENT TOTAL==>			2463.10

SEGMENT# 2 C SFE01 STT-15 11/20/24 11/27/24 11/20/24

TRAVEL, ROUND TRIP

CONDITION:

Travel to and from machine located at the diversion.

REPAIR:

CONTINUED ON PAGE 03

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Tax Exemption Number **Federal ID Number**

Salesperson
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SERVICE INVOICE

STK#/FLEET#	HRS	PIN/EIN	WARRANTY DATE	HRS
Z051422 ADTS	453	1DW460PAVRFB08755	10/25/25	1000
UNIT#AD-4615 460P S		RG6135U050658	07/25/26	8000

-Drive to ASN Reach 10.
-Drove back to the shop.

	LABOR	107.20
24102054	SEGMENT TOTAL==>	107.20

SEGMENT# 3 C SFE01 RDO-900-080 11/20/24 12/03/24 11/20/24
CUSTOMER MACHINE INSPECTION, CONSTRUCTION/FORESTRY/VERMEER

CONDITION:

Inspect machine for additional repairs.

REPAIR:

Machine Inspection.

- ☒ Check machine over for any needed repairs or service.
- ☒ Check Fluid Levels.
- ☒ Check for leaks.
- ☒ Check A/C and Heater function.
- ☒ Check condition of hydraulic hoses and cylinders.
- ☒ Check and note any stored or active codes.
- ☒ Check for Loose or missing hardware.
- ☒ Check operation of machine.
- ☒ Check lights, wipers, and electrical system.
- ☒ Check condition of battery.
- ☒ Check condition of glass and sheet metal.
- ☒ Check safety items (horn, back up alarm, seat belt, signal lights).
- ☒ Check cutting edge's or bucket teeth (Ground Engagement).
- ☒ Check general condition of tires or tracks.
- ☒ Check pins and bushings.
- ☒ Check C-Frames for needed repairs.

Recommended Service or Repairs:

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Account No. 7171051 **Phone No.** 7019971603 **Invoice No.** W3065154

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WO7300

Tax Exemption Number **Federal ID Number**

Salesperson
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SERVICE INVOICE

STK#/FLEET#	HRS	PIN/EIN	WARRANTY DATE	HRS
Z051422 ADTS	453	1DW460PAVRFB08755	10/25/25	1000
UNIT#AD-4615 460P S		RG6135U050658	07/25/26	8000

- 1.Nothing at this time
- 2.
- 3.
- 4.
- 5.
- 6.
- 7.

Customer representative: _____

Date: _____

Approved or Declined: _____

24102054	740D1D54	LABOR	Internal
		SEGMENT TOTAL==>	Internal

***** WORK ORDER TOTALS *****		
	INTERNAL	CUSTOMER
PARTS		1440.10
LABOR	Internal	1130.20
SUB TOTAL==>	Internal	2570.30
CASS County		7.20
ND STATE TAX		72.01
INTERNAL TOTAL	Internal	
CUSTOMER TOTAL		2649.51

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Tax Exemption Number **Federal ID Number**

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SERVICE INVOICE

STK#/FLEET#	HRS	PIN/EIN	WARRANTY DATE	HRS
Z051422 ADTS	935	1DW460PAVRFB08755	10/25/25	1000
UNIT#AD-4615 460P		RG6135U050658	07/25/26	8000 T

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SEGMENT# 1 C ANJ01 DIAG 01/02/25 01/02/25
DIAGNOSTICS 2.10 HRS

CONDITION:

Customer states emission faults

DIAGNOSTICS:

Warmed machine to operating temp
Checked for flow through def header
Insured DEF got up to 50 Degrees
Coolant temp would only reach 162 after holding machine at
high idle for 5 min
Would recommend new thermostats to be installed

REPAIR:

Warmed machine to operating temp
Checked for flow through def header
Insured DEF got up to 50 Degrees
Coolant temp would only reach 162 after holding machine at
high idle for 5 min
Would recommend new thermostats to be installed

10501054

LABOR Warranty
SEGMENT TOTAL==> Warranty

SEGMENT# 2 C ANJ01 STT-15 01/02/25 01/02/25
TRAVEL, ROUND TRIP 1.34 HRS

CONDITION:

Travel to machine located off of 94 at diversion

REPAIR:

Traveled to and from machine 2 times.

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SERVICE INVOICE

STK#/FLEET#	HRS	PIN/EIN	WARRANTY DATE	HRS
Z051422 ADTS	935	1DW460PAVRFB08755	10/25/25	1000
UNIT#AD-4615 460P		RG6135U050658	07/25/26	8000 T
			LABOR	Internal
	26105054		SEGMENT TOTAL==>	Internal

SEGMENT# 3 C ANJ01 10-030-010 01/02/25 01/10/25

THERMOSTATS, REMOVE AND REPLACE

5.50 HRS

CONDITION:

Machine has emission codes

DIAGNOSTICS:

Thermostats are not allowing engine to gain full temp

REPAIR:

Removed thermostat housing

Removed and replaced thermostats

Installed thermostats

Filled and bled coolant system

Ran unit and made sure it is operating as it should

ADDITIONAL DESCRIPTION:

Failed Part #:DZ133461

Failed/Function Area:0400B

Failed Type Code:14

DTAC Case / Solution #:

Diagnostic Hours:2.10

If Reman, Failed Serial #:

New Serial #:

RE554015	THERMOSTAT	3	Warranty	Warranty
R529398	SEAL	3	Warranty	Warranty
R530142	O-RING	1	Warranty	Warranty
R531530	GASKET	2	Warranty	Warranty
			PARTS	Warranty
			LABOR	Warranty

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SERVICE INVOICE

STK#/FLEET#	HRS	PIN/EIN	WARRANTY DATE	HRS
Z051422 ADTS	935	1DW460PAVRFB08755	10/25/25	1000
UNIT#AD-4615 460P		RG6135U050658	07/25/26	8000 T
10501054		SEGMENT TOTAL==>		Warranty

***** WORK ORDER TOTALS *****

	INTERNAL	CUSTOMER
PARTS	Warr/Int	
LABOR	Warr/Int	
INTERNAL TOTAL	Warr/Int	

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Ship Via **Purchase Order**
WO8417

Tax Exemption Number **Federal ID Number**

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JUX

SERVICE INVOICE

STK#/FLEET#	HRS	PIN/EIN	WARRANTY DATE	HRS
Z051422 ADTS	1048	1DW460PAVRFB08755	10/25/25	1000
UNIT#AD-4615 460P S		RG6135U050658	07/25/26	8000 T

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SEGMENT# 1 C SFE01 PM30-1000 01/07/25 01/13/25 01/07/25
1000 HOUR SERVICE

CONDITION:

Perform 1000 hour service.

REPAIR:

Drained and refill engine oil and replace filter
Replaced final fuel filter
Replaced aux fuel filter with water sep (if equipped)
Replaced primary fuel filter with water separator
Took hydraulic oil sample
Took transmission oil sample
Took axle oil sample
Checked park brake pad wear and lubricate linkage
Checked engine coolant level
Checked coolant condition.
Checked axle oil levels.
Checked and adjust dump body shock pads.
Checked hydraulic system oil level
Cleaned dust unloader valve
Checked transmission oil level
Checked air intake hoses and charge air cooler tube couplings
Lubricated greaseable steering cylinder pins
Lubricated tailgate pivots
Lubricated bin pivots
Lubricated lift cylinders
Lubricated art. joint, osc. joint, and through-drive bearing

CONTINUED ON PAGE 02

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Invoice to: ASN CONSTRUCTORS
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MOORHEAD, MN

Date 01/15/25 **Time** 21:19:58 (B) **Page** 02

Account No. 7171051 **Phone No.** 7019971603 **Invoice No.** W3136554

Ship Via **Purchase Order**
WO8417

Tax Exemption Number **Federal ID Number**

Salesperson
JUX

SERVICE INVOICE

STK#/FLEET#	HRS	PIN/EIN	WARRANTY DATE	HRS
Z051422 ADTS	1048	1DW460PAVRFB08755	10/25/25	1000
UNIT#AD-4615 460P S		RG6135U050658	07/25/26	8000 T
Inspected automatic lubrication components (if equipped)				
Took engine oil sample				
Replaced primary air cleaner element				
Replaced secondary air cleaner element				
Replaced Cab and Recirc. Filters				
Runed transmission clutch calibration (cab monitor)				
Performed load sense calibration (cab monitor)				
AT191102	FILTER,CABFRESH	1	19.04	19.04
AT307501	FILTER,CABRECIR	1	15.09	15.09
AT315231	TEST/MEASURE SU	6	2.69	16.14
Test/Measure Supply Item				
AT346594	KIT	6	22.73	136.38
AT365869	FILTER,ADTLFUEL	1	61.28	61.28
DZ112918	FILTER ELEMENT	1	134.72	134.72
DZ130550	FILTER ELEMENT	1	132.60	132.60
FRT	SHIP/HANDLING	1	13.00	13.00
RE230985	AIR FILTER	1	97.53	97.53
RE261960	AIR FILTER	1	292.44	292.44
RE572785	OIL FILTER	1	86.48	86.48
TY26682	PLUS-50 TM ENGI	45	5.86	263.70
PLUS-50 II OIL 15W40 CK4/SN				
PARTS				1268.40
LABOR				973.50
24102054	SEGMENT TOTAL==>			2241.90

SEGMENT# 2 C SFE01 STT-15 01/07/25 01/13/25 01/07/25

TRAVEL, ROUND TRIP

CONDITION:

Travel to and from machine located at the diversion.

REPAIR:

CONTINUED ON PAGE 03

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Date 01/15/25 Time 21:19:58 (B) Page 03

Account No. 7171051 Phone No. 7019971603 Invoice No. W3136554

Ship Via Purchase Order
WO8417

Tax Exemption Number Federal ID Number

Salesperson
JUX

SERVICE INVOICE

STK#/FLEET#	HRS	PIN/EIN	WARRANTY DATE	HRS
Z051422 ADTS	1048	1DW460PAVRFB08755	10/25/25	1000
UNIT#AD-4615 460P S		RG6135U050658	07/25/26	8000 T
-Drove to ASN reach 10.				
-Drove back to the shop.				
LABOR				107.20
24102054	SEGMENT TOTAL==>			107.20

SEGMENT# 3 C SFE01 RDO-900-080 01/07/25 01/15/25 01/07/25
CUSTOMER MACHINE INSPECTION, CONSTRUCTION/FORESTRY/VERMEER

CONDITION:

Inspect for additional repairs.

REPAIR:

Machine Inspection.

- ☒ Check machine over for any needed repairs or service.
- ☒ Check Fluid Levels.
- ☒ Check for leaks.
- ☒ Check A/C and Heater function.
- ☒ Check condition of hydraulic hoses and cylinders.
- ☒ Check and note any stored or active codes.
- ☒ Check for Loose or missing hardware.
- ☒ Check operation of machine.
- ☒ Check lights, wipers, and electrical system.
- ☒ Check condition of battery.
- ☒ Check condition of glass and sheet metal.
- ☒ Check safety items (horn, back up alarm, seat belt, signal lights).
- ☒ Check cutting edge's or bucket teeth (Ground Engagement).
- ☒ Check general condition of tires or tracks.
- ☒ Check pins and bushings.
- ☒ Check C-Frames for needed repairs.

Recommended Service or Repairs:

CONTINUED ON PAGE 04

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Account No. 7171051 **Phone No.** 7019971603 **Invoice No.** W3136554

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WO8417

Tax Exemption Number **Federal ID Number**

Salesperson
JUX

SERVICE INVOICE

STK#/FLEET#	HRS	PIN/EIN	WARRANTY DATE	HRS
Z051422 ADTS	1048	1DW460PAVRFB08755	10/25/25	1000
UNIT#AD-4615 460P	S	RG6135U050658	07/25/26	8000 T

1.
2.
3.
4.
5.
6.
7.
Customer representative: _____
Date: _____
Approved or Declined: _____

	LABOR	Internal
24102054 740D1D54	SEGMENT TOTAL==>	Internal

***** WORK ORDER TOTALS *****		
	INTERNAL	CUSTOMER
PARTS		1268.40
LABOR	Internal	1080.70
SUB TOTAL==>	Internal	2349.10
CASS County		6.34
ND STATE TAX		63.42
INTERNAL TOTAL	Internal	
CUSTOMER TOTAL		2418.86

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Date 02/18/25 **Time** 21:18:02 (B) **Page** 01

Account No. 7171051 **Phone No.** 7019971603 **Invoice No.** W3182754

Ship Via **Purchase Order**
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Tax Exemption Number **Federal ID Number**

Salesperson
JUX / DWE

SERVICE INVOICE

STK#/FLEET#	HRS	PIN/EIN	WARRANTY DATE	HRS
Z051422 ADTS	1432	1DW460PAVRFB08755	10/25/25	1000
UNIT#AD-4615 460P S		RG6135U050658	07/25/26	8000 T

** Buy parts online and view your invoices at RDOequipment.com/account.

SEGMENT# 1 C ANJ01 PM30-0500 02/04/25 02/06/25 02/04/25

500 HOUR SERVICE

CONDITION:

500 hour service.

REPAIR:

Drain and refill engine oil and replace filter
Replace final fuel filter
Replace aux fuel filter with water sep (if equipped)
Replace primary fuel filter with water separator
Take hydraulic oil sample
Take transmission oil sample
Take axle oil sample
Check park brake pad wear and lubricate linkage
Check engine coolant level
Check coolant condition.
Check axle oil levels.
Check and adjust dump body shock pads.
Check hydraulic system oil level
Clean dust unloader valve
Check transmission oil level
Check air intake hoses and charge air cooler tube couplings
Lubricate greaseable steering cylinder pins
Lubricate tailgate pivots
Lubricate bin pivots
Lubricate lift cylinders
Lubricate art. joint, osc. joint, and through-drive bearing
Inspect automatic lubrication components (if equipped)

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Account No. 7171051 **Phone No.** 7019971603 **Invoice No.** W3182754

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 WO8848

Tax Exemption Number **Federal ID Number**

Salesperson
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SERVICE INVOICE

STK#/FLEET#	HRS	PIN/EIN	WARRANTY DATE	HRS
Z051422 ADTS	1432	1DW460PAVRFB08755	10/25/25	1000
UNIT#AD-4615 460P S		RG6135U050658	07/25/26	8000 T
Take engine oil sample				
Replace primary air cleaner element				
Replace secondary air cleaner element				
Replace Cab and Recirc. Filters				
Run transmission clutch calibration (cab monitor)				
Perform load sense calibration (cab monitor)				
AT191102	FILTER,CABFRESH	1	16.83	16.83
AT307501	FILTER,CABRECIR	1	13.34	13.34
AT315231	TEST/MEASURE SU	6	2.69	16.14
Test/Measure Supply Item				
AT346594	KIT	6	22.73	136.38
AT365869	FILTER,ADTLFUEL	1	52.09	52.09
DZ112918	FILTER ELEMENT	1	114.51	114.51
DZ130550	FILTER ELEMENT	1	112.71	112.71
FRT	SHIP/HANDLING	1	13.00	13.00
RE230985	AIR FILTER	1	82.90	82.90
RE261960	AIR FILTER	1	248.57	248.57
RE572785	OIL FILTER	1	73.51	73.51
TY26675	15W40 +50 2.5G	6	68.43	410.58
PLUS-50 II OIL 15W40 CK4/SN				
PARTS				1290.56
LABOR				973.50
24102054	SEGMENT TOTAL==>			2264.06

SEGMENT# 2 C ANJ01 STT-15 02/04/25 02/06/25 02/04/25

TRAVEL, ROUND TRIP

CONDITION:

Travel to and from machine.

REPAIR:

Traveled to machine of 32nd ave

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Ship Via	Purchase Order
	WO8848

Tax Exemption Number	Federal ID Number

Salesperson
JUX / DWE

SERVICE INVOICE

STK#/FLEET#	HRS	PIN/EIN	WARRANTY DATE	HRS
Z051422 ADTS	1432	1DW460PAVRFB08755	10/25/25	1000
UNIT#AD-4615 460P	S	RG6135U050658	07/25/26	8000 T

traveled to house

ADDITIONAL DESCRIPTION:

Unit has Telematics.

Check JDLink or PreCise for location and verify with
customer.

Change zone charge per location.

	LABOR	
24102054	107.20	
	SEGMENT TOTAL==>	107.20

SEGMENT# 3 C ANJ01 RDO-900-080 02/04/25 02/11/25 02/04/25
CUSTOMER MACHINE INSPECTION, CONSTRUCTION/FORESTRY/VERMEER

CONDITION:

Inspection.

REPAIR:

Inspected machine found brake hose is leaking

	LABOR	Internal
24102054	740D1D54	Internal
	SEGMENT TOTAL==>	Internal

***** WORK ORDER TOTALS *****

	INTERNAL	CUSTOMER
PARTS		1290.56
LABOR	Internal	1080.70
SUB TOTAL==>	Internal	2371.26
CASS County		6.45
ND STATE TAX		64.53
INTERNAL TOTAL	Internal	
CUSTOMER TOTAL		2442.24

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Account No. 7171051 **Phone No.** 7019971603 **Invoice No.** W3188854

Ship Via W99/EAG **Purchase Order** WO8965

Tax Exemption Number **Federal ID Number**

Salesperson
JUX / JUX

SERVICE INVOICE

STK#/FLEET#	HRS	PIN/EIN	WARRANTY DATE	HRS
Z051422 ADTS	1489	1DW460PAVRFB08755	10/25/25	1000
UNIT#AD-4615 460P		RG6135U050658	07/25/26	8000 T

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SEGMENT# 1 C ANJ01 RDO-060-084 02/06/25 02/06/25
HOSE-BRAKE VALVE TO MIDDLE AXLE, REPLACE AT533240 2.50 HRS

CONDITION:

Hose was noticed leaking when service was being preformed

DIAGNOSTICS:

Verified what hose was leaking.

REPAIR:

Removed and replaced hose

ADDITIONAL DESCRIPTION:

Failed Part #: AT533240

Failed/Function Area: Brake Lines - ST998196

Failed Type Code: 14

DTAC Case / Solution #:

Diagnostic Hours: 0.25

If Reman, Failed Serial #:

New Serial #:

T77613	O-RING (-6 ORFS)	1	Warranty	Warranty
X1JB43-8-8	FITTING	1	Warranty	Warranty
X1J743-6-8	ELBOW FITT	1	Warranty	Warranty
X471TC-8-RL	BULK HOSE	91	Warranty	Warranty
			PARTS	Warranty
			LABOR	Warranty
10501054			SEGMENT TOTAL==>	Warranty

SEGMENT# 2 C ANJ01 STT-15 02/06/25 02/06/25
TRAVEL, ROUND TRIP .67 HRS
CONTINUED ON PAGE 02

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Account No.	Phone No.	Invoice No.
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Ship Via	Purchase Order
W99/EAG	WO8965

Tax Exemption Number	Federal ID Number

Salesperson
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SERVICE INVOICE

STK#/FLEET#	HRS	PIN/EIN	WARRANTY DATE	HRS
Z051422 ADTS	1489	1DW460PAVRFB08755	10/25/25	1000
UNIT#AD-4615 460P		RG6135U050658	07/25/26	8000 T

CONDITION:

Travel to and from machine.

REPAIR:

Traveled to store and back to machine in laydown yard off
32nd ave

10401099 10501054 26105054	LABOR	Warr/Int
	SEGMENT TOTAL==>	Warr/Int

***** WORK ORDER TOTALS *****

	INTERNAL	CUSTOMER
PARTS	Warr/Int	
LABOR	Warr/Int	
INTERNAL TOTAL	Warr/Int	

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Date 02/27/25 **Time** 21:19:46 (B) **Page** 01

Account No. 7171051 **Phone No.** 7019971603 **Invoice No.** W3192154

Ship Via W99/1SB **Purchase Order** WO8983

Tax Exemption Number **Federal ID Number**

Salesperson
JUX / JUX

SERVICE INVOICE

STK#/FLEET#	HRS	PIN/EIN	WARRANTY DATE	HRS
Z051422 ADTS	1518	1DW460PAVRFB08755	10/25/25	1000
UNIT#AD-4615 460P		RG6135U050658	07/25/26	8000 T

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SEGMENT# 1 C ANJ01 DIAG 02/07/25 02/07/25 1.18 HRS

CONDITION:

Customer states the turbo is making noise.

DIAGNOSTICS:

Hooked up service advisor and monitored data to see if
turbo may have been over spinning causing excessive noise

All parameters looked okay

Inspected for Exhaust leaks

Removed aftertreatment area cover

Found Plug missing in after treatment area

Also found clamp was not sealing up correctly

	LABOR	Warranty
10501054	SEGMENT TOTAL==>	Warranty

SEGMENT# 2 C ANJ01 STT-15 02/07/25 02/10/25 1.34 HRS

TRAVEL, ROUND TRIP

CONDITION:

Travel to and from machine located at the diversion.

REPAIR:

Traveled to machine located off 32nd ave

Traveled to machine off 32nd ave

	LABOR	Warr/Int
10501054 26105054	SEGMENT TOTAL==>	Warr/Int

SEGMENT# 3 C ANJ01 00534A005 02/07/25 02/07/25 1.61 HRS

DIESEL EXHAUST FLUID (DEF) DECOMPOSITION TUBE, REMOVE AND IN

CONTINUED ON PAGE 02

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Date	Time	Page
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Account No.	Phone No.	Invoice No.
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W99/1SB	WO8983

Tax Exemption Number	Federal ID Number

Salesperson
JUX / JUX

SERVICE INVOICE

STK#/FLEET#	HRS	PIN/EIN	WARRANTY DATE	HRS
Z051422 ADTS	1518	1DW460PAVRFB08755	10/25/25	1000
UNIT#AD-4615 460P		RG6135U050658	07/25/26	8000 T

CONDITION:

Turbo noise present

DIAGNOSTICS:

Clamp is leaking causing turbo noise

REPAIR:

Removed aftertreatment covers

Removed decomposition tube

Removed leaking clamp

Installed new clamps

Installed plug

Installed cover

Ran and checked for leaks

ADDITIONAL DESCRIPTION:

Failed Part #:AT358460

Failed/Function Area:0534 Exhaust Aftertreatment

Failed Type Code:14

DTAC Case / Solution #:

Diagnostic Hours: 1.18

If Reman, Failed Serial #:

New Serial #:

AT358460	Clamp	1 N	Warr/Int	Warr/Int
DZ10556	CLAMP	2	Warr/Int	Warr/Int
FRT	SHIP/HANDLING	1	Warr/Int	Warr/Int
RE552445	Fitting Plug	1 N	Warr/Int	Warr/Int
R529640	GASKET	2	Warr/Int	Warr/Int

PARTS Warr/Int

LABOR Warr/Int

10501054 744A1D54

SEGMENT TOTAL==> Warr/Int

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SERVICE INVOICE

STK#/FLEET#	HRS	PIN/EIN	WARRANTY DATE	HRS
Z051422 ADTS	1518	1DW460PAVRFB08755	10/25/25	1000
UNIT#AD-4615 460P		RG6135U050658	07/25/26	8000 T

***** WORK ORDER TOTALS *****	
	INTERNAL CUSTOMER
PARTS	Warr/Int
LABOR	Warr/Int
INTERNAL TOTAL	Warr/Int

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Date 05/16/25 **Time** 21:23:15 (B) **Page** 01

Account No. 7171051 **Phone No.** 7019971603 **Invoice No.** W3365754

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WO10766 - PO187

Tax Exemption Number **Federal ID Number**

Salesperson
JUX / DWE

SERVICE INVOICE

STK#/FLEET#	HRS	PIN/EIN	WARRANTY DATE	HRS
Z051422 ADTS	1981	1DW460PAVRFB08755	10/25/25	1000
UNIT#AD-4615 460P S		RG6135U050658	07/25/26	8000 T

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SEGMENT# 1 C ANJ01 PM-VALVES 05/12/25 05/13/25 05/12/25
VALVE CLEARANCE ADJUST W/FT4 EVERY 2000HRS

REPAIR:

Removed components to access valve cover.

Removed valve cover.

Adjusted valve clearance.

Assembled in reverse order.

Checked engine oil level.

Tested operations and check for oil leaks.

R531581	GASKET	1	65.11	65.11
---------	--------	---	-------	-------

R531582	GASKET	1	65.70	65.70
---------	--------	---	-------	-------

TY26101	BRAKE CLEANER	3	7.95	23.85
---------	---------------	---	------	-------

Cleaning Solvent

PARTS	154.66
-------	--------

LABOR	1567.50
-------	---------

24102054	SEGMENT TOTAL==>	1722.16
----------	------------------	---------

SEGMENT# 2 C ANJ01 STT-20 05/12/25 05/14/25 05/12/25

TRAVEL, ROUND TRIP

REPAIR:

Traveled to machine north of hardwood

Traveled to RDO moorhead

ADDITIONAL DESCRIPTION:

Unit has Telematics

Check Pedigree for location and verify with customer

Change zone charge per location.

LABOR	142.40
-------	--------

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Date	Time	Page
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Account No.	Phone No.	Invoice No.
7171051	7019971603	W3365754

Ship Via	Purchase Order
	WO10766 - PO187

Tax Exemption Number	Federal ID Number

Salesperson
JUX / DWE

SERVICE INVOICE

STK#/FLEET#	HRS	PIN/EIN	WARRANTY DATE	HRS
Z051422 ADTS	1981	1DW460PAVRFB08755	10/25/25	1000
UNIT#AD-4615 460P	S	RG6135U050658	07/25/26	8000 T
24102054		SEGMENT TOTAL==>		142.40

***** WORK ORDER TOTALS *****

PARTS	154.66
LABOR	1709.90
SUB TOTAL==>	1864.56
CASS County	.78
ND STATE TAX	7.73
CUSTOMER TOTAL	1873.07

Thank you for your business



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Ship to: ASN Constructors

+47.0042426, -96.9428834

Invoice to: ASN CONSTRUCTORS
4816 AMBER VALLEY PARKWAY, STE 100
FARGO ND 58104

Branch
MOORHEAD, MN *REPRINT*

Date 05/16/25 **Time** 21:23:15 (B) **Page** 01

Account No. 7171051 **Phone No.** 7019971603 **Invoice No.** W3365854

Ship Via **Purchase Order**
WO10766 - PO187

Tax Exemption Number **Federal ID Number**

Salesperson
JUX / DWE

SERVICE INVOICE

STK#/FLEET#	HRS	PIN/EIN	WARRANTY DATE	HRS
Z051422 ADTS	2029	1DW460PAVRFB08755	10/25/25	1000
UNIT#AD-4615 460P S		RG6135U050658	07/25/26	8000 T

** Buy parts online and view your invoices at RDOequipment.com/account.

SEGMENT# 1 C SFE01 PM30-2000 05/12/25 05/13/25 05/12/25

2000 HOUR SERVICE

CONDITION:

-Complete service

REPAIR:

Drained and refill engine oil and replace filter
Replaced aux fuel filter with water sep (if equipped)
Replaced final fuel filter
Replaced primary fuel filter with water separator
Replaced fuel tank breather filter
Replaced Axle Oil filters
Took engine oil sample
Took hydraulic oil sample
Took transmission oil sample
Took axle oil sample
Cleaned dust unloader valve
Inspected automatic lubrication components
Checked air intake hoses and charge air cooler tube couplings
Checked and adjust dump body shock pads
Checked axle oil level
Checked coolant condition
Checked engine coolant level
Checked hydraulic system oil level
Checked park brake pad wear and lubricate linkage
Checked transmission oil level
Lubricated art. joint, osc. joint, and through-drive bearing

CONTINUED ON PAGE 02

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Account No. 7171051 **Phone No.** 7019971603 **Invoice No.** W3365854

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Tax Exemption Number **Federal ID Number**

Salesperson
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SERVICE INVOICE

STK#/FLEET#	HRS	PIN/EIN	WARRANTY DATE	HRS
Z051422 ADTS	2029	1DW460PAVRFB08755	10/25/25	1000
UNIT#AD-4615 460P S		RG6135U050658	07/25/26	8000 T
Lubricated bin pivots				
Lubricated greaseable steering cylinder pins				
Lubricated lift cylinders				
Lubricated tailgate pivots				
Replaced primary air cleaner element				
Replaced secondary air cleaner element				
Replaced Cab and Recirc. Filters				
Runned transmission clutch calibration (cab monitor)				
Performed load sense calibration (cab monitor)				
Replaced DEF Dosing Unit Filter (if equipped)				
Replaced transmission oil filters				
Drained and refill transmission oil				
Drained and refill axle oil				
AM39653	OIL FILTER	1	11.97	11.97
AT191102	FILTER,CABFRESH	1	19.80	19.80
AT307501	FILTER,CABRECIR	1	15.69	15.69
AT315231	TEST/MEASURE SU	6	2.69	16.14
Test/Measure Supply Item				
AT346594	KIT	6	22.73	136.38
AT365869	FILTER,ADTLFUEL	1	61.28	61.28
AT418095	HYDRAULIC FILTE	3	112.49	337.47
Hydraulic Filter				
AT468647	OIL FILTER	2	64.63	129.26
DZ112918	FILTER ELEMENT	1	134.72	134.72
DZ114640	FILTER KIT	1	128.65	128.65
DZ124403	FILTER KIT	1	88.62	88.62
DZ130550	FILTER ELEMENT	1	132.60	132.60
FRT	SHIP/HANDLING	1	13.00	13.00
RE230985	AIR FILTER	1	97.53	97.53
RE261960	AIR FILTER	1	292.44	292.44

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Date 05/16/25 **Time** 21:23:15 (B) **Page** 03

Account No. 7171051 **Phone No.** 7019971603 **Invoice No.** W3365854

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WO10766 - PO187

Tax Exemption Number **Federal ID Number**

Salesperson
JUX / DWE

SERVICE INVOICE

STK#/FLEET#	HRS	PIN/EIN	WARRANTY DATE	HRS
Z051422 ADTS	2029	1DW460PAVRFB08755	10/25/25	1000
UNIT#AD-4615 460P	S	RG6135U050658	07/25/26	8000 T
RE572785	OIL FILTER	1	86.48	86.48
TY22028	HY-GARD TM	170	5.69	967.30
TY26682	PLUS-50 TM ENGI	44	5.86	257.84
	PLUS-50 II OIL	15W40 CK4/SN		
TY27743	HD SYNTRAN 5GAL	2	543.70	1087.40
TY27751	HD SYNTRAN 1 GA	4	112.52	450.08
T225008	BREATHER	1	32.40	32.40
	PARTS			4497.05
	LABOR			2128.50
24102054	SEGMENT TOTAL==>			6625.55

SEGMENT# 2 C SFE01 STT-20 05/12/25 05/14/25 05/12/25

TRAVEL, ROUND TRIP

CONDITION:

-Drive to ASN for service

REPAIR:

-Drove to ASN Reach 3

-Drove back to the shop

	LABOR	142.40
24102054	SEGMENT TOTAL==>	142.40

SEGMENT# 3 C SFE01 RDO-900-080 05/12/25 05/16/25 05/12/25

CUSTOMER MACHINE INSPECTION, CONSTRUCTION/FORESTRY/VERMEER

CONDITION:

-Inspect machine for additional repairs

REPAIR:

Performed inspection.

No issues found.

	LABOR	41.25
24102054	SEGMENT TOTAL==>	41.25

CONTINUED ON PAGE 04

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Tax Exemption Number	Federal ID Number

Salesperson
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SERVICE INVOICE

STK#/FLEET#	HRS	PIN/EIN	WARRANTY DATE	HRS
Z051422 ADTS	2029	1DW460PAVRFB08755	10/25/25	1000
UNIT#AD-4615 460P	S	RG6135U050658	07/25/26	8000 T

***** WORK ORDER TOTALS *****

PARTS	4497.05
LABOR	2312.15
SUB TOTAL==>	6809.20
CASS County	12.50
ND STATE TAX	224.85
CUSTOMER TOTAL	7046.55

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Account No. 7171051 **Phone No.** 7019971603 **Invoice No.** W3420854

Ship Via w99/111 **Purchase Order** W011208

Tax Exemption Number **Federal ID Number**

Salesperson
JUX / JUX

SERVICE INVOICE

STK#/FLEET#	HRS	PIN/EIN	WARRANTY DATE	HRS
Z051422 ADTS	2199	1DW460PAVRFB08755	10/25/25	1000
UNIT#AD-4615 460P		RG6135U050658	07/25/26	8000 T

** Buy parts online and view your invoices at RDOequipment.com/account.

SEGMENT# 1 C SFE01 DIAG 06/06/25 06/06/25 .50 HRS
DIAGNOSTICS

CONDITION:

Customer states coolant leak on right side of engine

DIAGNOSTICS:

-Looks like the EGR Tube is cracked
-Will need to be replaced
-I did find a few connections where the clamps were a little
loose and coolant was dripping

REPAIR:

-Found EGR tube to be cracked will need to be replaced
along with gasket and o-Ring

	LABOR	Warranty
10501054	SEGMENT TOTAL==>	Warranty

SEGMENT# 2 C ANJ01 STT-15 06/06/25 06/06/25 .67 HRS
TRAVEL, ROUND TRIP

REPAIR:

Traveled from machine

	LABOR	Internal
24901054	SEGMENT TOTAL==>	Internal

SEGMENT# 3 C ANJ01 00414A100 06/06/25 06/06/25 7.00 HRS
EGR COOLANT INLET TUBE R&I (IT4)

CONDITION:

Replace EGR pipe.

DIAGNOSTICS:

CONTINUED ON PAGE 02

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Account No. 7171051 Phone No. 7019971603 Invoice No. W3420854

Ship Via w99/111 Purchase Order W011208

Tax Exemption Number Federal ID Number

Salesperson
JUX / JUX

SERVICE INVOICE

STK#/FLEET#	HRS	PIN/EIN	WARRANTY DATE	HRS
Z051422 ADTS	2199	1DW460PAVRFB08755	10/25/25	1000
UNIT#AD-4615 460P		RG6135U050658	07/25/26	8000 T

EGR Tube found faulty

REPAIR:

Drained remaining coolant into containers
Removed and installed new EGR coolant pipe
Vaccuum filled coolant reservoir
Pressure checked coolant system found 3 hose clamps loose
Tightened clamps
Machine held coolant pressure

ADDITIONAL DESCRIPTION:

Failed Part #:DZ115052
Failed/Function Area: A400
Failed Type Code:14
DTAC Case / Solution #:
Diagnostic Hours: 0.50

If Reman, Failed Serial #:

New Serial #:

****Part Location on Rack:****

AM Truck or #3

DZ115052	TUBE	1	Warranty	Warranty
R532305	O-RING	1 O	Warranty	Warranty
R536559	GASKET	1 O	Warranty	Warranty
TY26576	COOL-GARD 2.5	2	Warranty	Warranty
			PARTS	Warranty
			LABOR	Warranty
10501054		SEGMENT TOTAL==>		Warranty

***** WORK ORDER TOTALS *****
CONTINUED ON PAGE 03

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Account No.	Phone No.	Invoice No.
7171051	7019971603	W3420854

Ship Via	Purchase Order
w99/111	W011208

Tax Exemption Number	Federal ID Number

Salesperson
JUX / JUX

SERVICE INVOICE

STK#/FLEET#	HRS	PIN/EIN	WARRANTY DATE	HRS	
Z051422 ADTS	2199	1DW460PAVRFB08755	10/25/25	1000	
UNIT#AD-4615 460P		RG6135U050658	07/25/26	8000 T	
				INTERNAL	CUSTOMER
			PARTS	Warr/Int	
			LABOR	Warr/Int	
			INTERNAL TOTAL	Warr/Int	

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Date 07/15/25 **Time** 21:10:40 (B) **Page** 01

Account No. 7171051 **Phone No.** 7019971603 **Invoice No.** W3469654

Ship Via **Purchase Order**
WO11809

Tax Exemption Number **Federal ID Number**

Salesperson
JUX

SERVICE INVOICE

STK#/FLEET#	HRS	PIN/EIN	WARRANTY DATE	HRS
Z051422 ADTS	2605	1DW460PAVRFB08755	10/25/25	1000
UNIT#AD-4615 460P S		RG6135U050658	07/25/26	8000 T

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SEGMENT# 1 C SFE01 PM30-0500 07/03/25 07/14/25 07/03/25
500 HOUR SERVICE

CONDITION:

Complete 500 hour service.

REPAIR:

Drained and refill engine oil and replace filter
Replaced final fuel filter
Replaced aux fuel filter with water sep (if equipped)
Replaced primary fuel filter with water separator
Took hydraulic oil sample
Took transmission oil sample
Took axle oil sample
Checked park brake pad wear and lubricate linkage
Checked engine coolant level
Checked coolant condition.
Checked axle oil levels.
Checked and adjust dump body shock pads.
Checked hydraulic system oil level
Cleaned dust unloader valve
Checked transmission oil level
Checked air intake hoses and charge air cooler tube couplings
Lubricated greaseable steering cylinder pins
Lubricated tailgate pivots
Lubricated bin pivots
Lubricated lift cylinders
Lubricated art. joint, osc. joint, and through-drive bearing

CONTINUED ON PAGE 02

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Date 07/15/25 **Time** 21:10:40 (B) **Page** 02

Account No. 7171051 **Phone No.** 7019971603 **Invoice No.** W3469654

Ship Via **Purchase Order**
 WO11809

Tax Exemption Number **Federal ID Number**

Salesperson
 JUX

SERVICE INVOICE

STK#/FLEET#	HRS	PIN/EIN	WARRANTY DATE	HRS
Z051422 ADTS	2605	1DW460PAVRFB08755	10/25/25	1000
UNIT#AD-4615 460P S		RG6135U050658	07/25/26	8000 T
Inspected automatic lubrication components (if equipped)				
Took engine oil sample				
Replaced primary air cleaner element				
Replaced secondary air cleaner element				
Replaced Cab and Recirc. Filters				
Ran transmission clutch calibration (cab monitor)				
Performed load sense calibration (cab monitor)				
AT191102	FILTER,CABFRESH	1	19.80	19.80
AT307501	FILTER,CABRECIR	1	15.69	15.69
AT315231	TEST/MEASURE SU	6	2.73	16.38
Test/Measure Supply Item				
AT346594	KIT	6	23.08	138.48
AT365869	FILTER,ADTLFUEL	1	64.34	64.34
DZ112918	FILTER ELEMENT	1	141.46	141.46
DZ130550	FILTER ELEMENT	1	139.23	139.23
RE230985	AIR FILTER	1	99.48	99.48
RE261960	AIR FILTER	1	292.44	292.44
RE572785	OIL FILTER	1	77.83	77.83
TY26682	PLUS-50 TM ENGI	44	5.86	257.84
PLUS-50 II OIL 15W40 CK4/SN				
				PARTS 1262.97
				LABOR 973.50
24102054	SEGMENT TOTAL==>			2236.47

SEGMENT# 2 C SFE01 STT-15 07/03/25 07/14/25 07/03/25

TRAVEL, ROUND TRIP

CONDITION:

-Drive to ASN For service

REPAIR:

-Drove to ASN Reach 9.

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Date 07/15/25 **Time** 21:10:40 (B) **Page** 03

Account No. 7171051 **Phone No.** 7019971603 **Invoice No.** W3469654

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Tax Exemption Number **Federal ID Number**

Salesperson
JUX

SERVICE INVOICE

STK#/FLEET#	HRS	PIN/EIN	WARRANTY DATE	HRS
Z051422 ADTS	2605	1DW460PAVRFB08755	10/25/25	1000
UNIT#AD-4615 460P S		RG6135U050658	07/25/26	8000 T

-Drove back to the shop.

ADDITIONAL DESCRIPTION:

Unit has Telematics.

Check JDLink or PreCise for location and verify with customer.

Change zone charge per location.

24102054	LABOR	107.20
	SEGMENT TOTAL==>	107.20

SEGMENT# 3 C SFE01 RDO-900-080 07/03/25 07/15/25 07/03/25
CUSTOMER MACHINE INSPECTION, CONSTRUCTION/FORESTRY/VERMEER

CONDITION:

-Inspect machine for additional repairs

REPAIR:

Machine Inspection.

- ☒ Check machine over for any needed repairs or service.
- ☒ Check Fluid Levels.
- ☒ Check for leaks.
- ☒ Check A/C and Heater function.
- ☒ Check condition of hydraulic hoses and cylinders.
- ☒ Check and note any stored or active codes.
- ☒ Check for Loose or missing hardware.
- ☒ Check operation of machine.
- ☒ Check lights, wipers, and electrical system.
- ☒ Check condition of battery.
- ☒ Check condition of glass and sheet metal.
- ☒ Check safety items (horn, back up alarm, seat belt, signal lights).
- ☒ Check cutting edge's or bucket teeth (Ground Engagement).

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Date 07/15/25 Time 21:10:40 (B) Page 04

Account No. 7171051 Phone No. 7019971603 Invoice No. W3469654

Ship Via Purchase Order WO11809

Tax Exemption Number Federal ID Number

Salesperson
JUX

SERVICE INVOICE

STK#/FLEET#	HRS	PIN/EIN	WARRANTY DATE	HRS
Z051422 ADTS	2605	1DW460PAVRFB08755	10/25/25	1000
UNIT#AD-4615 460P S		RG6135U050658	07/25/26	8000 T

- ☒ Check general condition of tires or tracks.
☒ Check pins and bushings.
☒ Check C-Frames for needed repairs.

Recommended Service or Repairs:

- 1.Front right side door handel is Brocken
- 2.Cab fire extinguisher is missing
- 3.ac and heat work
- 4.updated software
- 5.
- 6.
- 7.

Customer representative: _____

Date: _____

Approved or Declined: _____

"CFMI25"

	LABOR	Internal
24102054 740D1D54	SEGMENT TOTAL==>	Internal

***** WORK ORDER TOTALS *****

	INTERNAL	CUSTOMER
PARTS		1262.97
LABOR	Internal	1080.70
SUB TOTAL==>	Internal	2343.67
CASS County		6.31
ND STATE TAX		63.15
INTERNAL TOTAL	Internal	
CUSTOMER TOTAL		2413.13

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WO12188

Tax Exemption Number **Federal ID Number**

Salesperson
JUX

SERVICE INVOICE

STK#/FLEET#	HRS	PIN/EIN	WARRANTY DATE	HRS
Z051422 ADTS	2903	1DW460PAVRFB08755	10/25/25	1000
UNIT#AD-4615 460P S		RG6135U050658	07/25/26	8000 T

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SEGMENT# 1 C ANJ01 PM30-1000 08/04/25 08/05/25 08/04/25
1000 HOUR SERVICE

CONDITION:

Perform 1000 hour service.

REPAIR:

Drain and refill engine oil and replace filter
Replace final fuel filter
Replace aux fuel filter with water sep (if equipped)
Replace primary fuel filter with water separator
Take hydraulic oil sample
Take transmission oil sample
Take axle oil sample
Check park brake pad wear and lubricate linkage
Check engine coolant level
Check coolant condition.
Check axle oil levels.
Check and adjust dump body shock pads.
Check hydraulic system oil level
Clean dust unloader valve
Check transmission oil level
Check air intake hoses and charge air cooler tube couplings
Lubricate greaseable steering cylinder pins
Lubricate tailgate pivots
Lubricate bin pivots
Lubricate lift cylinders
Lubricate art. joint, osc. joint, and through-drive bearing
Inspect automatic lubrication components (if equipped)

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 WO12188

Tax Exemption Number **Federal ID Number**

Salesperson
 JUX

SERVICE INVOICE

STK#/FLEET#	HRS	PIN/EIN	WARRANTY DATE	HRS
Z051422 ADTS	2903	1DW460PAVRFB08755	10/25/25	1000
UNIT#AD-4615 460P S		RG6135U050658	07/25/26	8000 T
Take engine oil sample				
Replace primary air cleaner element				
Replace secondary air cleaner element				
Replace Cab and Recirc. Filters				
Run transmission clutch calibration (cab monitor)				
Perform load sense calibration (cab monitor)				
AT191102	FILTER,CABFRESH	1	16.83	16.83
AT307501	FILTER,CABRECIR	1	13.34	13.34
AT315231	TEST/MEASURE SU	6	2.73	16.38
Test/Measure Supply Item				
AT346594	KIT	6	23.08	138.48
AT365869	FILTER,ADTLFUEL	1	54.69	54.69
DZ112918	FILTER ELEMENT	1	120.24	120.24
DZ130550	FILTER ELEMENT	1	139.23	139.23
FRT	SHIP/HANDLING	1	13.00	13.00
RE230985	AIR FILTER	1	84.56	84.56
RE261960	AIR FILTER	1	248.57	248.57
RE572785	OIL FILTER	1	73.51	73.51
TY26101	BRAKE CLEANER	2	7.95	15.90
Cleaning Solvent				
TY26675	15W40 +50 2.5G	5	59.60	298.00
PLUS-50 II OIL 15W40 CK4/SN				
TY27751	HD SYNTRAN 1 GA	1	112.52	112.52
				PARTS 1345.25
				LABOR 973.50
24102054	SEGMENT TOTAL==>			2318.75

SEGMENT# 2 C ANJ01 STT-15 08/04/25 08/11/25 08/04/25
 TRAVEL, ROUND TRIP
CONDITION:

CONTINUED ON PAGE 03

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Date	Time	Page
08/25/25	21:24:00 (B)	03

Account No.	Phone No.	Invoice No.
7171051	7019971603	W3531354

Ship Via	Purchase Order
	WO12188

Tax Exemption Number	Federal ID Number

Salesperson
JUX

SERVICE INVOICE

STK#/FLEET#	HRS	PIN/EIN	WARRANTY DATE	HRS
Z051422 ADTS	2903	1DW460PAVRFB08755	10/25/25	1000
UNIT#AD-4615 460P S		RG6135U050658	07/25/26	8000 T

Travel to and from machine located at the diversion.

REPAIR:

Traveled to home from store
Traveled from home to machine
Traveled to store form machine

24102054	LABOR	107.20
	SEGMENT TOTAL==>	107.20

SEGMENT# 3 C ANJ01 RDO-900-080 08/04/25 08/24/25 08/04/25

CUSTOMER MACHINE INSPECTION

CONDITION:

Inspect machine for additional repairs.

REPAIR:

Checked over machine found transmission low.

ADDITIONAL DESCRIPTION:

Machine Inspection.

- ___ Check machine over for any needed repairs or service.
- ___ Check Fluid Levels.
- ___ Check for leaks.
- ___ Check A/C and Heater function.
- ___ Check condition of hydraulic hoses and cylinders.
- ___ Check and note any stored or active codes.
- ___ Check for Loose or missing hardware.
- ___ Check operation of machine.
- ___ Check lights, wipers, and electrical system.
- ___ Check condition of battery.
- ___ Check condition of glass and sheet metal.
- ___ Check safety items (horn, back up alarm, seat belt, signal lights).
- ___ Check cutting edge's or bucket teeth (Ground

CONTINUED ON PAGE 04

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Tax Exemption Number	Federal ID Number

Salesperson
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SERVICE INVOICE

STK#/FLEET#	HRS	PIN/EIN	WARRANTY DATE	HRS
Z051422 ADTS	2903	1DW460PAVRFB08755	10/25/25	1000
UNIT#AD-4615 460P S		RG6135U050658	07/25/26	8000 T

Engagement).

___ Check general condition of tires or tracks.

___ Check pins and bushings.

___ Check C-Frames for needed repairs.

Recommended Service or Repairs:

- 1.
- 2.
- 3.
- 4.
- 5.
- 6.
- 7.

Customer representative: _____

Date: _____

Approved or Declined: _____

"CFMI25"

	LABOR	Internal
24102054 740D1D54	SEGMENT TOTAL==>	Internal

***** WORK ORDER TOTALS *****		
	INTERNAL	CUSTOMER
PARTS		1345.25
LABOR	Internal	1080.70
SUB TOTAL==>	Internal	2425.95
CASS County		6.73
ND STATE TAX		67.26
INTERNAL TOTAL	Internal	
CUSTOMER TOTAL		2499.94

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Account No. 7171051 **Phone No.** 7019971603 **Invoice No.** W3594854

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WO12752

Tax Exemption Number **Federal ID Number**

Salesperson
JUX

SERVICE INVOICE

STK#/FLEET#	HRS	PIN/EIN	WARRANTY DATE	HRS
Z051422 ADTS	3460	1DW460PAVRFB08755	10/25/25	1000
UNIT#AD-4615 460P S		RG6135U050658	07/25/26	8000 T

** Buy parts online and view your invoices at RDOequipment.com/account.

SEGMENT# 1 C SFE01 PM30-0500 09/09/25 09/11/25 09/09/25
500 HOUR SERVICE

CONDITION:

Perform 500 hour service.

REPAIR:

Drained and refill engine oil and replace filter
Replaced final fuel filter
Replaced aux fuel filter with water sep (if equipped)
Replaced primary fuel filter with water separator
Took hydraulic oil sample
Took transmission oil sample
Take axle oil sample
Checked park brake pad wear and lubricate linkage
Checked engine coolant level
Checked coolant condition.
Checked axle oil levels.
Checked and adjust dump body shock pads.
Checked hydraulic system oil level
Cleaned dust unloader valve
Checked transmission oil level
Checked air intake hoses and charge air cooler tube couplings
Lubricated greaseable steering cylinder pins
Lubricated tailgate pivots
Lubricated bin pivots
Lubricated lift cylinders
Lubricated art. joint, osc. joint, and through-drive

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 WO12752

Tax Exemption Number **Federal ID Number**

Salesperson
 JUX

SERVICE INVOICE

STK#/FLEET#	HRS	PIN/EIN	WARRANTY DATE	HRS
Z051422 ADTS	3460	1DW460PAVRFB08755	10/25/25	1000
UNIT#AD-4615 460P S		RG6135U050658	07/25/26	8000 T
bearing				
Inspected automatic lubrication components (if equipped)				
Took engine oil sample				
Replaced primary air cleaner element				
Replaced secondary air cleaner element				
Replaced Cab and Recirc. Filters				
Runned transmission clutch calibration (cab monitor)				
Performed load sense calibration (cab monitor)				
AT191102	FILTER,CABFRESH	1	16.83	16.83
AT307501	FILTER,CABRECIR	1	13.34	13.34
AT315231	TEST/MEASURE SU	6	2.73	16.38
Test/Measure Supply Item				
AT346594	KIT	6	23.08	138.48
AT365869	FILTER,ADTLFUEL	1	54.69	54.69
DZ112918	FILTER ELEMENT	1	120.24	120.24
DZ130550	FILTER ELEMENT	1	139.23	139.23
FRT	SHIP/HANDLING	1	13.00	13.00
RE230985	AIR FILTER	1	84.56	84.56
RE261960	AIR FILTER	1	248.57	248.57
RE572785	OIL FILTER	1	73.51	73.51
TY26682	PLUS-50 TM ENGI	41	5.86	240.26
PLUS-50 II OIL 15W40 CK4/SN				
	PARTS			1159.09
	LABOR			973.50
24102054	SEGMENT TOTAL==>			2132.59

SEGMENT# 2 C SFE01 STT-15 09/09/25 09/11/25 09/09/25

TRAVEL, ROUND TRIP

CONDITION:

Travel to and from machine located at the diversion.

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	WO12752

Tax Exemption Number	Federal ID Number

Salesperson
JUX

SERVICE INVOICE

STK#/FLEET#	HRS	PIN/EIN	WARRANTY DATE	HRS
Z051422 ADTS	3460	1DW460PAVRFB08755	10/25/25	1000
UNIT#AD-4615 460P S		RG6135U050658	07/25/26	8000 T

Bianca
REPAIR:
-Drove to ASN Reach 11.
-Drove back to the shop.

24102054	LABOR	107.20
	SEGMENT TOTAL==>	107.20

SEGMENT# 3 C SFE01 RDO-900-080 09/09/25 09/15/25 09/09/25

CUSTOMER MACHINE INSPECTION

CONDITION:

-Inspect machine for additional repairs

REPAIR:

Machine Inspection.

- ☒ Check machine over for any needed repairs or service.
- ☒ Check Fluid Levels.
- ☒ Check for leaks.
- ☒ Check A/C and Heater function.
- ☒ Check condition of hydraulic hoses and cylinders.
- ☒ Check and note any stored or active codes.
- ☒ Check for Loose or missing hardware.
- ☒ Check operation of machine.
- ☒ Check lights, wipers, and electrical system.
- ☒ Check condition of battery.
- ☒ Check condition of glass and sheet metal.
- ☒ Check safety items (horn, back up alarm, seat belt, signal lights).
- ☒ Check cutting edge's or bucket teeth (Ground Engagement).
- ☒ Check general condition of tires or tracks.
- ☒ Check pins and bushings.

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Account No. 7171051 **Phone No.** 7019971603 **Invoice No.** W3594854

Ship Via **Purchase Order**
WO12752

Tax Exemption Number **Federal ID Number**

Salesperson
JUX

SERVICE INVOICE

STK#/FLEET#	HRS	PIN/EIN	WARRANTY DATE	HRS
Z051422 ADTS	3460	1DW460PAVRFB08755	10/25/25	1000
UNIT#AD-4615 460P S		RG6135U050658	07/25/26	8000 T

☒ Check C-Frames for needed repairs.

Recommended Service or Repairs:

- 1.fenders are loose
- 2.AC and heat work
- 3.fire extinguisher is good
- 4.
- 5.
- 6.
- 7.

Customer representative: _____

Date: _____

Approved or Declined: _____

"CFMI25"

	LABOR	Internal
24102054 740D1D54	SEGMENT TOTAL==>	Internal

***** WORK ORDER TOTALS *****

	INTERNAL	CUSTOMER
PARTS		1159.09
LABOR	Internal	1080.70
SUB TOTAL==>	Internal	2239.79
CASS County		5.80
ND STATE TAX		57.95
INTERNAL TOTAL	Internal	
CUSTOMER TOTAL		2303.54

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10/31/25

Time
19:17:14 (B)

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01

Account No.
7171051

Phone No.
7019971603

Invoice No.
W3628954

Ship Via
W99/EAG

Purchase Order
WARRANTY

Tax Exemption Number

Federal ID Number

Salesperson
SAO / SAO

SERVICE INVOICE

STK#/FLEET#	HRS	PIN/EIN	WARRANTY DATE	HRS
Z051422 ADTS	3671	1DW460PAVRFB08755	10/25/25	1000
UNIT#AD-4615 460P		RG6135U050658	07/25/26	8000 T

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SEGMENT# 1 C ANJ01 DIAG 09/25/25 09/25/25 2.07 HRS

DIAGNOSTICS

CONDITION:

Customer states there are active faults.
Sensor Fault - Non-serviceable Replace Sensor and Reprogram
New Sensor
10:44 PM
TPM 000929.12
**
Fan 2 solenoid circuit fault. - Troubleshooting required.
3:14 PM
VCU 005563.05

Switched Power circuit fault - Troubleshooting required.
7:14 AM
RFC 523219.04

DIAGNOSTICS:

Machine would through RFC 523219.04.
Tilted bed and installed bed lock.
Checked power and ground @ controller.
Was getting low voltage to controller.
Checked fuse same voltage at fuse box.
Checked power at batteries and found one battery is bad and
needs replacing.
KEY start up and would be active until engine was running
and alternator was charging batteries.
Machine needs new batteries.

CONTINUED ON PAGE 02

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Date	Time	Page
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Account No.	Phone No.	Invoice No.
7171051	7019971603	W3628954

Ship Via	Purchase Order
W99/EAG	WARRANTY

Tax Exemption Number	Federal ID Number

Salesperson
SAO / SAO

SERVICE INVOICE

STK#/FLEET#	HRS	PIN/EIN	WARRANTY DATE	HRS
Z051422 ADTS	3671	1DW460PAVRFB08755	10/25/25	1000
UNIT#AD-4615 460P		RG6135U050658	07/25/26	8000 T
			LABOR	Warr/Int
10501054 24003054			SEGMENT TOTAL==>	Warr/Int

SEGMENT# 2 C ANJ01 STT-20	09/25/25 09/25/25	
TRAVEL, ROUND TRIP		2.67 HRS

CONDITION:

Travel to and from machine located at the diversion.

Bianca

DIAGNOSTICS:

Traveled to machine @ 40th ave.

Traveled home.

Traveled to machine in rch 10.

Checked road before traveling on it.

Called contact and she stated to not go into laydown yard
due to the wet conditions.

Traveled to store.

Traveled to machine.

Traveled home.

	LABOR	Internal
24003054	SEGMENT TOTAL==>	Internal

SEGMENT# 4 C ANJ01 10-020-020	09/25/25 09/29/25	
FRONT CRANKSHAFT OIL SEAL, R&R		8.00 HRS

CONDITION:

Customer states there is an oil leak at the front of the
engine.

REPAIR:

Remove serpentine belt.

Remove vibration damper with puller.

Removed Front seal.

CONTINUED ON PAGE 03

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Date 10/31/25 **Time** 19:17:14 (B) **Page** 03

Account No. 7171051 **Phone No.** 7019971603 **Invoice No.** W3628954

Ship Via W99/EAG **Purchase Order** WARRANTY

Tax Exemption Number **Federal ID Number**

Salesperson
SAO / SAO

SERVICE INVOICE

STK#/FLEET#	HRS	PIN/EIN	WARRANTY DATE	HRS
Z051422 ADTS	3671	1DW460PAVRFB08755	10/25/25	1000
UNIT#AD-4615 460P		RG6135U050658	07/25/26	8000 T

Pressed on new seal with installer.
Installed vibration dampener.

ADDITIONAL DESCRIPTION:

Failed Part #:DZ121138
Failed/Function Area:0400
Failed Type Code:14
DTAC Case / Solution #:
Diagnostic Hours:

If Reman, Failed Serial #:
New Serial #:

RCK 3				
DZ121138	SEAL	1	Warranty	Warranty
TY26101	BRAKE CLEANER	3	Warranty	Warranty
	Cleaning Solvent			
T20168	WASHER	6	Warranty	Warranty
19M7792	SCREW	1	Warranty	Warranty
19M8088	CAP SCREW	6 M	Warranty	Warranty
			PARTS	Warranty
			LABOR	Warranty
10501054		SEGMENT TOTAL==>		Warranty

***** WORK ORDER TOTALS *****

	INTERNAL	CUSTOMER
PARTS	Warr/Int	
LABOR	Warr/Int	
INTERNAL TOTAL	Warr/Int	

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Ship Via W99/EAG **Purchase Order** WO13260

Tax Exemption Number **Federal ID Number**

Salesperson
JUX / JUX

SERVICE INVOICE

STK#/FLEET#	HRS	PIN/EIN	WARRANTY DATE	HRS
Z051422 ADTS	3803	1DW460PAVRFB08755	10/25/25	1000
UNIT#AD-4615 460P		RG6135U050658	07/25/26	8000 T

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SEGMENT# 1 C TJ501 DIAG 10/03/25 10/03/25 10/03/25 .48 HRS

DIAGNOSTICS

CONDITION:

CONDITION:

ECU 000051.07 Air Throttle Actuator Not Responding or Out of Adjustment.

.

DIAGNOSTICS:

1. Check Air Throttle Actuator (ATA) and related wiring for shorts, opens, and proper resistance, repair any issues.
2. Check for proper ATA position input voltage using Service Advisor.
3. Clean ATA, if DTC 3464.07 is still present after cleaning, replace ATA.

DIAGNOSTICS:

-Inspected wiring going from the ECU to the air throttle, it all appears ok.

-Connected the diagnostic test box to the air throttle circuit and checked supply voltage, it is approximately 5 volts, wiggled harness while monitoring voltage, it maintains 5 volts.

-Used the test box to check the signal circuit, it is 2.5 volts, wiggled the harness while monitoring voltage, it did not change. The wiring all checks ok, air throttle is failing internally and will need to be replaced.

ADDITIONAL DESCRIPTION:

Failed Part #:DZ123597

CONTINUED ON PAGE 02

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Date 10/16/25 **Time** 21:46:57 (B) **Page** 02

Account No. 7171051 **Phone No.** 7019971603 **Invoice No.** W3647354

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Tax Exemption Number **Federal ID Number**

Salesperson
JUX / JUX

SERVICE INVOICE

STK#/FLEET#	HRS	PIN/EIN	WARRANTY DATE	HRS
Z051422 ADTS	3803	1DW460PAVRFB08755	10/25/25	1000
UNIT#AD-4615 460P		RG6135U050658	07/25/26	8000 T

Failed/Function Area:0400C\1753
Failed Type Code:11
DTAC Case / Solution #:
Diagnostic Hours:.48
Part Location on Rack:

10501054

LABOR Warranty
SEGMENT TOTAL==> Warranty

SEGMENT# 2 C TJ501 STT-15 10/03/25 10/03/25 10/03/25
TRAVEL, ROUND TRIP .67 HRS

CONDITION:

Travel to and from machine located at the diversion.

REPAIR:

Travel to the machine at reach 10 and back to Moorhead.

24003054

LABOR Internal
SEGMENT TOTAL==> Internal

SEGMENT# 3 C TJ501 RDO-020-090 10/03/25 10/03/25 10/03/25
AIR THROTTLE VALVE, REPLACE 3.00 HRS

CONDITION:

ECU 000051.07 Air Throttle Actuator Not Responding or Out
of
Adjustment.

DIAGNOSTICS:

-Inspected wiring going from the ECU to the air throttle,
it all appears ok.
-Connected the diagnostic test box to the air throttle
circuit and checked supply voltage, it is approximately 5
volts, wiggled harness while monitoring voltage, it
maintains 5 volts.

CONTINUED ON PAGE 03

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Tax Exemption Number	Federal ID Number

Salesperson
JUX / JUX

SERVICE INVOICE

STK#/FLEET#	HRS	PIN/EIN	WARRANTY DATE	HRS
Z051422 ADTS	3803	1DW460PAVRFB08755	10/25/25	1000
UNIT#AD-4615 460P		RG6135U050658	07/25/26	8000 T

-Used the test box to check the signal circuit, it is 2.5 volts, wiggled the harness while monitoring voltage, it did not change. The wiring all checks ok, air throttle is failing internally and will need to be replaced.

REPAIR:

-Unbolted the air throttle and removed it from the machine.
-Installed a new air throttle and connected wiring.
-Connected to the machine with Service Advisor and calibrated the air throttle.
-Ran the machine and monitored the air throttle in Service Advisor, it is working fine at this time.

ADDITIONAL DESCRIPTION:

Failed Part #:DZ123597
Failed/Function Area:0400C\1753
Failed Type Code:11
DTAC Case / Solution #:
Diagnostic Hours:.48
Part Location on Rack:

CRDZ131441	Valve	1-	Warranty	Warranty
DZ131441	VALVE	1	Warranty	Warranty
CRDZ131441	Valve		Warranty	Warranty
			PARTS	Warranty
			LABOR	Warranty
10501054		SEGMENT TOTAL==>		Warranty

***** WORK ORDER TOTALS *****

INTERNAL CUSTOMER

PARTS Warr/Int

CONTINUED ON PAGE 04

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Date	Time	Page
10/16/25	21:46:57 (B)	04

Account No.	Phone No.	Invoice No.
7171051	7019971603	W3647354

Ship Via	Purchase Order
W99/EAG	WO13260

Tax Exemption Number	Federal ID Number

Salesperson
JUX / JUX

SERVICE INVOICE

STK#/FLEET#	HRS	PIN/EIN	WARRANTY DATE	HRS
Z051422 ADTS	3803	1DW460PAVRFB08755	10/25/25	1000
UNIT#AD-4615 460P		RG6135U050658	07/25/26	8000 T
		LABOR		Warr/Int
		INTERNAL TOTAL		Warr/Int

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Date 10/24/25 **Time** 21:24:59 (B) **Page** 01

Account No. 7171051 **Phone No.** 7019971603 **Invoice No.** W3657654

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Salesperson
JUX

SERVICE INVOICE

STK#/FLEET#	HRS	PIN/EIN	WARRANTY DATE	HRS
Z051422 ADTS	3975	1DW460PAVRFB08755	10/25/25	1000
UNIT#AD-4615 460P S		RG6135U050658	07/25/26	8000 T

** Buy parts online and view your invoices at RDOequipment.com/account.

SEGMENT# 1 C SFE01 PM30-4000 10/09/25 10/20/25 10/09/25
4000 HOUR SERVICE

CONDITION:

-Complete 4000 hour Service.

REPAIR:

Drained and refill axle oil
Drained and refill engine oil and replace filter
Drained and refill hydraulic system oil
Drained and refill transmission oil
Replaced aux fuel filter with water sep (if equipped)
Replaced axle oil filters
Replaced final fuel filter
Replaced hydraulic system return filter
Replaced fuel tank breather filter
Replaced primary fuel filter with water separator
Replaced transmission oil filters
Replaced hydraulic reservoir breather filter
Checked engine coolant level
Checked coolant condition
Checked and adjust dump body shock pads
Checked air intake hoses and charge air cooler tube couplings
Checked park brake pad wear and lubricate linkage
Checked transmission oil level
Cleaned and inspect axle breathers
Cleaned hydraulic fan drive case drain in-line screen
Cleaned dust unloader valve

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Account No. 7171051	Phone No. 7019971603	Invoice No. W3657654
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Salesperson
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SERVICE INVOICE

STK#/FLEET#	HRS	PIN/EIN	WARRANTY DATE	HRS
Z051422 ADTS	3975	1DW460PAVRFB08755	10/25/25	1000
UNIT#AD-4615 460P S		RG6135U050658	07/25/26	8000 T
Cleaned hydraulic pump case drain in-line screen				
Cleaned hydraulic system fill strainer				
Inspected auto-lube internal pump filter (if equipped)				
Inspected automatic lubrication components (if equipped)				
Lubricated art. joint, osc. joint, and through-drive bearing				
Lubricated axle seals				
Lubricated bin pivots				
Lubricated greaseable steering cylinder pins				
Lubricated lift cylinders				
Lubricated tailgate pivots				
Performed load sense calibration (cab monitor)				
Runned transmission clutch calibration (cab monitor)				
Took axle oil sample				
Took engine oil sample				
Took hydraulic oil sample				
Took transmission oil sample				
Replaced primary air cleaner element				
Replaced secondary air cleaner element				
Replaced Cab and Recirc. Filters				
Replaced DEF Dosing Unit Filter (if equipped)				
Replaced DEF Tank Breather Filter (if equipped)				
AM39653	OIL FILTER	1	9.26	9.26
AT191102	FILTER,CABFRESH	1	15.33	15.33
AT307501	FILTER,CABRECIR	1	12.15	12.15
AT315231	TEST/MEASURE SU	6	2.73	16.38
Test/Measure Supply Item				
AT346594	KIT	6	23.08	138.48
AT365869	FILTER,ADTLFUEL	1	49.81	49.81
AT418095	HYDRAULIC FILTE	3	95.62	286.86

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Tax Exemption Number **Federal ID Number**

Salesperson
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SERVICE INVOICE

STK#/FLEET#	HRS	PIN/EIN	WARRANTY DATE	HRS
Z051422 ADTS	3975	1DW460PAVRFB08755	10/25/25	1000
UNIT#AD-4615 460P S		RG6135U050658	07/25/26	8000 T
Hydraulic Filter				
AT468647	OIL FILTER	2	50.03	100.06
AT545968	FILTER ELEMENT	1	163.98	163.98
DZ112918	FILTER ELEMENT	1	120.24	120.24
DZ114640	FILTER KIT	1	104.56	104.56
DZ124403	FILTER KIT	1	82.33	82.33
DZ130550	FILTER ELEMENT	1	139.23	139.23
FRT	SHIP/HANDLING	1	13.00	13.00
H216169	BREATHER	1	22.22	22.22
RE230985	AIR FILTER	1	84.56	84.56
RE261960	AIR FILTER	1	248.57	248.57
RE572785	OIL FILTER	1	66.95	66.95
TY22028	HY-GARD TM	150	5.69	853.50
TY26682	PLUS-50 TM ENGI	46	5.86	269.56
PLUS-50 II OIL 15W40 CK4/SN				
TY27718	HYDRA XR BULK	175	12.41	2171.75
TY27743	HD SYNTRAN 5GAL	2	543.70	1087.40
	PARTS			6056.18
	LABOR			2293.50
24102054	SEGMENT TOTAL==>			8349.68

SEGMENT# 2 C SFE01 STT-15 10/09/25 10/23/25 10/09/25

TRAVEL, ROUND TRIP

CONDITION:

Travel to and from machine located at the diversion.

REPAIR:

-Drove to reach 10

-Drove back to the shop

24102054 LABOR 107.20
 SEGMENT TOTAL==> 107.20

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Salesperson
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SERVICE INVOICE

STK#/FLEET#	HRS	PIN/EIN	WARRANTY DATE	HRS
Z051422 ADTS	3975	1DW460PAVRFB08755	10/25/25	1000
UNIT#AD-4615 460P S		RG6135U050658	07/25/26	8000 T

SEGMENT# 3 C SFE01 RDO-900-080 10/09/25 10/23/25 10/09/25

CUSTOMER MACHINE INSPECTION

CONDITION:

-Inspect machine for additional repairs.

REPAIR:

Machine Inspection.

- ☒ Check machine over for any needed repairs or service.
- ☒ Check Fluid Levels.
- ☒ Check for leaks.
- ☒ Check A/C and Heater function.
- ☒ Check condition of hydraulic hoses and cylinders.
- ☒ Check and note any stored or active codes.
- ☒ Check for Loose or missing hardware.
- ☒ Check operation of machine.
- ☒ Check lights, wipers, and electrical system.
- ☒ Check condition of battery.
- ☒ Check condition of glass and sheet metal.
- ☒ Check safety items (horn, back up alarm, seat belt, signal lights).
- ☒ Check cutting edge's or bucket teeth (Ground Engagement).
- ☒ Check general condition of tires or tracks.
- ☒ Check pins and bushings.
- ☒ Check C-Frames for needed repairs.

Recommended Service or Repairs:

- 1.Nothing at this time
- 2.
- 3.
- 4.

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SERVICE INVOICE

STK#/FLEET#	HRS	PIN/EIN	WARRANTY DATE	HRS
Z051422 ADTS	3975	1DW460PAVRFB08755	10/25/25	1000
UNIT#AD-4615 460P	S	RG6135U050658	07/25/26	8000 T

5.
6.
7.
Customer representative: _____
Date: _____
Approved or Declined: _____
"CFMI25"

	LABOR	Internal
24102054 740D1D54	SEGMENT TOTAL==>	Internal

***** WORK ORDER TOTALS *****		
	INTERNAL	CUSTOMER
PARTS		6056.18
LABOR	Internal	2400.70
SUB TOTAL==>	Internal	8456.88
CASS County		12.50
ND STATE TAX		302.81
INTERNAL TOTAL	Internal	
CUSTOMER TOTAL		8772.19

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Tax Exemption Number **Federal ID Number**

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SERVICE INVOICE

STK#/FLEET#	HRS	PIN/EIN	WARRANTY DATE	HRS
Z051422 ADTS	3975	1DW460PAVRFB08755	10/25/25	1000
UNIT#AD-4615 460P S		RG6135U050658	07/25/26	8000 T

** Buy parts online and view your invoices at RDOequipment.com/account.

SEGMENT# 1 C SFE01 PM-VALVES 10/09/25 10/20/25 10/09/25
VALVE CLEARANCE ADJUST W/FT4 EVERY 2000HRS

CONDITION:

-Complete Valve adjust.

REPAIR:

Disconnected battery.

Removed components to access valve cover.

Removed valve cover.

Adjusted valve clearance.

Assembled in reverse order.

Checked engine oil level.

Tested operations and check for oil leaks.

R531581	GASKET	1	66.41	66.41
---------	--------	---	-------	-------

R531582	GASKET	1	67.02	67.02
---------	--------	---	-------	-------

TY26101	BRAKE CLEANER	2	6.99	13.98
---------	---------------	---	------	-------

Cleaning Solvent

PARTS	147.41
-------	--------

LABOR	1567.50
-------	---------

24102054	SEGMENT TOTAL==>	1714.91
----------	------------------	---------

SEGMENT# 2 C SFE01 STT-15 10/09/25 10/20/25 10/09/25
TRAVEL, ROUND TRIP

CONDITION:

Travel to and from machine located at the diversion.

REPAIR:

-Drove to ASN Reach 10.

-Drove back to the shop.

CONTINUED ON PAGE 02

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7171051	7019971603	W3657754

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SERVICE INVOICE

STK#/FLEET#	HRS	PIN/EIN	WARRANTY DATE	HRS
Z051422 ADTS	3975	1DW460PAVRFB08755	10/25/25	1000
UNIT#AD-4615 460P	S	RG6135U050658	07/25/26	8000 T
		LABOR		107.20
24102054		SEGMENT TOTAL==>		107.20

***** WORK ORDER TOTALS *****

PARTS	147.41
LABOR	1674.70
SUB TOTAL==>	1822.11
CASS County	.74
ND STATE TAX	7.37
CUSTOMER TOTAL	1830.22

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01

Account No.
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SERVICE INVOICE

STK#/FLEET#	HRS	PIN/EIN	WARRANTY DATE	HRS
Z051422 ADTS	4140	1DW460PAVRFB08755	10/25/25	1000
UNIT#AD-4615 460P		RG6135U050658	07/25/26	8000 PR

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SEGMENT# 1 C TN501 DIAG 11/09/25 11/09/25

DIAGNOSTICS

CONDITION:

ECU codes with SCR derate.

ECU codes 005435.14 and 000027.07.

DIAGNOSTICS:

-Ran the machine and code ECU 000027.07 became active again.

-Disconnected the EGR valve and checked the terminals. They were all good.

-Load tested the supply circuit and it remained at 5V.

-Load tested the signal circuit and the voltage remained at 2.6V.

-Checked the software and the voltage remained at 2.6V.

-The EGR valve needs to be removed and cleaned/ replaced.

-After the EGR valve was removed, I found that the valve was very sticky and was binding up. EGR valve needed to be replaced.

	LABOR	Warranty
10401099 10501054	SEGMENT TOTAL==>	Warranty

SEGMENT# 2 C TN501 STT-45 11/09/25 11/09/25

TRAVEL, ROUND TRIP

CONDITION:

Travel from Near Forman, ND to the machine located by Harwood, ND.

REPAIR:

CONTINUED ON PAGE 02

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SERVICE INVOICE

STK#/FLEET#	HRS	PIN/EIN	WARRANTY DATE	HRS
Z051422 ADTS	4140	1DW460PAVRFB08755	10/25/25	1000
UNIT#AD-4615 460P		RG6135U050658	07/25/26	8000 PR

- Traveled from Forman, ND to the machine near Harwood, ND.
- Traveled from the machine to Moorhead RDO for parts, then back to the machine.
- Traveled from the machine near Harwood back to Forman, ND.

10501054 24003054	LABOR	Warr/Int
SEGMENT TOTAL==>		Warr/Int

SEGMENT# 3 C TN501 RDO-040-010 11/09/25 11/09/25
BATTERIES, REPLACE

CONDITION:

The batteries were no longer holding a charge. The alternator voltage was good at 27 volts. 5 minutes after the machine was shut off, the battery voltage went down to 22 volts.

REPAIR:

- Removed cover over the batteries.
- Disconnected battery cables.
- Removed battery hold downs.
- Used crane to removed batteries.
- Installed new batteries.
- Reconnected battery cables.
- Reinstalled battery hold downs.

ADDITIONAL DESCRIPTION:

Failure Part #: TY23020B
General Repair (Fail) Area: 1671 Batteries, Support and Cables

Failure Type Code: 11
DTAC Case / Solution #:NA
Diagnostic Hours:

CRTY23020B	WET CHARGED BAT	2- 54.00	108.00-
CONTINUED ON PAGE 03			

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Account No. 7171051 Phone No. 7019971603 Invoice No. W3717354

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SERVICE INVOICE

STK#/FLEET#	HRS	PIN/EIN	WARRANTY DATE	HRS
Z051422 ADTS	4140	1DW460PAVRFB08755	10/25/25	1000
UNIT#AD-4615 460P		RG6135U050658	07/25/26	8000 PR
TY23020B	BCI 4D/1400 CCA	2	358.38	716.76
	Wet Charged Battery			
CRTY23020B	WET CHARGED BAT		54.00	108.00
			PARTS	716.76
			LABOR	330.00
10401099 10501054			SEGMENT TOTAL==>	1046.76

SEGMENT# 4 C TN501 RDO-020-001 11/09/25 11/09/25

EGR VALVE, REPLACE DZ130422

CONDITION:

ECU codes with SCR derate.

ECU codes 005435.14 and 000027.07.

REPAIR:

- Opened engine hood.
- Disconnected EGR valve.
- Removed EGR valve bolts.
- Removed EGR valve.
- Installed new EGR valve with new gaskets.
- Reinstalled EGR Valve bolts.
- Reconnected EGR valve.
- Connected to the machine with service advisor.
- Calibrated the new EGR valve.
- Ran the machine and there are no active codes.

ADDITIONAL DESCRIPTION:

Failure Part #: DZ119115

General Repair (Fail) Area: 0400C Engine

6135HDW21-DZ125561-ETN277390 6135HDW21

Failure Type Code:

DTAC Case / Solution #: NA

Diagnostic Hours: 1.06 hours

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Salesperson
SAO / SAO

SERVICE INVOICE

STK#/FLEET#	HRS	PIN/EIN	WARRANTY DATE	HRS
Z051422 ADTS	4140	1DW460PAVRFB08755	10/25/25	1000
UNIT#AD-4615 460P		RG6135U050658	07/25/26	8000 PR
CRDZ119115	Exhaust Gas Rec	1-	Warranty	Warranty
DZ119115	EXHAUST GAS REC	1	Warranty	Warranty
	Exhaust Gas Recycling Valve			
CRDZ119115	Exhaust Gas Rec		Warranty	Warranty
R526831	GASKET	2	Warranty	Warranty
			PARTS	Warranty
			LABOR	Warranty
10401099 10501054		SEGMENT TOTAL==>		Warranty

***** WORK ORDER TOTALS *****

	INTERNAL	CUSTOMER
PARTS	Warr/Int	716.76
LABOR	Warr/Int	330.00
SUB TOTAL==>	Warr/Int	1046.76
CLAY CO County		3.59
MN STATE TAX		49.27
MOORHEAD City		3.58
INTERNAL TOTAL	Warr/Int	
TOTAL DUE RDO		1103.20

+-----+
| Payments are due on your RDO account 30 days from the invoice date |
+-----+

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SERVICE INVOICE

STK#/FLEET#	HRS	PIN/EIN	WARRANTY DATE	HRS
Z051422 ADTS	4140	1DW460PAVRFB08755	10/25/25	1000
UNIT#AD-4615 460P		RG6135U050658	07/25/26	8000 PR

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Branch
 MOORHEAD, MN *REPRINT*

Date
 12/09/25

Time
 21:54:15 (B)

Page
 01

Account No.
 7171051

Phone No.
 7019971603

Invoice No.
 W3729354

Ship Via

Purchase Order
 WO14080

Tax Exemption Number

Federal ID Number

Salesperson
 SAO

SERVICE INVOICE

STK#/FLEET#	HRS	PIN/EIN	WARRANTY DATE	HRS
Z051422 ADTS	4200	1DW460PAVRFB08755	10/25/25	1000
UNIT#AD-4615 460P		RG6135U050658	07/25/26	8000 PR

** Buy parts online and view your invoices at RDOequipment.com/account.

SEGMENT#	DESCRIPTION	DATE	QTY	UNIT PRICE	TOTAL
1	C JSM01 DIAG	11/15/25			
	DIAGNOSTICS				
	TY27318	HYDRAU XR 5GAL	1	212.51	212.51
	T76938	O-RING (-16ORFS)	1	2.98	2.98
	X1JC43-12-12	HOSE FITTI	1	30.59	30.59
	X1J043-16-12	HOSE FITTI	1	59.59	59.59
	X1J743-16-12	ELBOW FITT	2	93.21	186.42
	X487TC-12-RL	BULK HOSE 3/4IN	99	1.94	192.06
		PARTS			684.15
10401099		SEGMENT TOTAL==>			684.15

SEGMENT#	DESCRIPTION	DATE	LABOR	Internal
2	C JSM01 STT-45	11/15/25		
	TRAVEL, ROUND TRIP			
	<u>REPAIR:</u>			
	Made two trips to machine north of Harwood and back from			
	Hitterdal, On-call.			
10401099	24003054		SEGMENT TOTAL==>	Internal

SEGMENT#	DESCRIPTION	DATE
3	C JSM01 NA	11/15/25
	Repair	
	<u>CONDITION:</u>	
	AT532911	
	AT490928	
	<u>REPAIR:</u>	
	Removed the hose on the right bin cylinder and installed	
	new one	

CONTINUED ON PAGE 02

Thank you for your business



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SERVICE INVOICE

STK#/FLEET#	HRS	PIN/EIN	WARRANTY DATE	HRS
Z051422 ADTS	4200	1DW460PAVRFB08755	10/25/25	1000
UNIT#AD-4615 460P		RG6135U050658	07/25/26	8000 PR
Filled hyd oil				
TY27718	HYDRA XR BULK	185	12.41	2295.85
			PARTS	2295.85
			LABOR	281.60
10401099		SEGMENT TOTAL==>		2577.45

***** WORK ORDER TOTALS *****		
	INTERNAL	CUSTOMER
PARTS		2980.00
LABOR	Internal	281.60
SUB TOTAL==>	Internal	3261.60
CLAY CO County		14.90
MN STATE TAX		204.87
MOORHEAD City		14.90
INTERNAL TOTAL	Internal	
TOTAL DUE RDO		3496.27

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Account No. 7171051 Phone No. 7019971603 Invoice No. W3731354

Ship Via W99/EAG Purchase Order WO14123

Tax Exemption Number Federal ID Number

Salesperson
SAO / SAO

SERVICE INVOICE

STK#/FLEET#	HRS	PIN/EIN	WARRANTY DATE	HRS
Z051422 ADTS	4240	1DW460PAVRFB08755	10/25/25	1000
UNIT#AD-4615 460P		RG6135U050658	07/25/26	8000 PR

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SEGMENT# 1 C ANJ01 DIAG 11/17/25 11/18/25

DIAGNOSTICS

CONDITION:

Customer states right side steering cylinder is leaking.

Verify.

DIAGNOSTICS:

Verified customer complaint

Inspected gap on cylinder internal snap ring groove has
been worn past repair

ADDITIONAL DESCRIPTION:

Failed Part #:AHC20001

Failed/Function Area:0965 Steering Cylinders

Failed Type Code:14

DTAC Case / Solution #:

Diagnostic Hours:

If Reman, Failed Serial #:

New Serial #:

Location: WHARE HOUSE

10401099 10501054

LABOR	Warranty
SEGMENT TOTAL==>	Warranty

SEGMENT# 2 C ANJ01 STT-25 11/17/25 11/18/25

TRAVEL, ROUND TRIP

CONDITION:

Travel to and from customer's location.

REPAIR:

CONTINUED ON PAGE 02

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11/25/25	21:56:52 (B)	02
Account No.	Phone No.	Invoice No.
7171051	7019971603	W3731354

Ship Via	Purchase Order
W99/EAG	WO14123
Tax Exemption Number	Federal ID Number

Salesperson
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SERVICE INVOICE

STK#/FLEET#	HRS	PIN/EIN	WARRANTY DATE	HRS
Z051422 ADTS	4240	1DW460PAVRFB08755	10/25/25	1000
UNIT#AD-4615 460P		RG6135U050658	07/25/26	8000 PR

Traveled to machine in RCH 3 north of harwood
Traveled home
Traveled to store
Traveled to machine
Traveled home

10501054 24003054	LABOR	Warr/Int
SEGMENT TOTAL==>		Warr/Int

SEGMENT# 3 C ANJ01 00960A023 11/17/25 11/18/25
STEERING CYLINDER, REPLACE RIGHT CYLINDER (INCLUDES FENDER)

CONDITION:

REPLACE RIGHT STEERING CYLINDER.

REPAIR:

The steering was cycled left and right with the engine off.
Fittings were loosened slowly to confirm pressure was released.
A drain pan was placed under the cylinder.
Hoses were tagged for correct reinstallation.
Hoses were disconnected and ends were capped to prevent contamination.
The cylinder was supported with a lifting device as required.
Mounting pins/bolts were removed and hardware retained.
The cylinder was slid out carefully.
The cylinder was positioned and mounting pins/bolts were inserted.
Caps were removed and hoses were connected per tags.
The engine was started and steering was cycled slowly left and right.
Smooth operation and air removal were confirmed.

CONTINUED ON PAGE 03

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Account No. 7171051 Phone No. 7019971603 Invoice No. W3731354

Ship Via W99/EAG Purchase Order WO14123

Tax Exemption Number Federal ID Number

Salesperson
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SERVICE INVOICE

STK#/FLEET#	HRS	PIN/EIN	WARRANTY DATE	HRS
Z051422 ADTS	4240	1DW460PAVRFB08755	10/25/25	1000
UNIT#AD-4615 460P		RG6135U050658	07/25/26	8000 PR

Connections were checked for leaks.
 Steering response was verified.

ADDITIONAL DESCRIPTION:

Failed Part #:AHC20001
 Failed/Function Area:0965 Steering Cylinders
 Failed Type Code:14
 DTAC Case / Solution #: NA
 Diagnostic Hours: .17 HOURS
 Location: WAREHOUSE

AHC20001	HYDRAULIC CYLIN	1	Warranty	Warranty
	Hydraulic Cylinder			
TY27718	HYDRA XR BULK	24	Warranty	Warranty
			PARTS	Warranty
			LABOR	Warranty
10501054		SEGMENT TOTAL==>		Warranty

SEGMENT# 4 C ANJ01 RDO-070-199 11/17/25 11/18/25
 HOSE-RESERVOIR TO AXLE MOTOR PUMP, REPLACE AT491096

REPAIR:

Removed hose wrap
 Removed old hose
 Installed new hose
 Installed hose wrap

T77858	O-RING (-12ORFS)	2	1.92	3.84
X1JC43-12-12	HOSE FITTI	1	30.59	30.59
X1J143-12-12	ELBOW FITT	1	77.39	77.39
X487TC-12-RL	BULK HOSE 3/4IN	90	1.94	174.60
			PARTS	286.42
			LABOR	220.00
10401099		SEGMENT TOTAL==>		506.42

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Tax Exemption Number Federal ID Number

Salesperson
SAO / SAO

SERVICE INVOICE

STK#/FLEET#	HRS	PIN/EIN	WARRANTY DATE	HRS
Z051422 ADTS	4240	1DW460PAVRFB08755	10/25/25	1000
UNIT#AD-4615 460P		RG6135U050658	07/25/26	8000 PR

***** WORK ORDER TOTALS *****		
	INTERNAL	CUSTOMER
PARTS	Warr/Int	286.42
LABOR	Warr/Int	220.00
SUB TOTAL==>	Warr/Int	506.42
CLAY CO County		1.44
MN STATE TAX		19.69
MOORHEAD City		1.43
INTERNAL TOTAL	Warr/Int	
TOTAL DUE RDO		528.98

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Account No. 7171051 Phone No. 7019971603 Invoice No. W3769454

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Tax Exemption Number Federal ID Number

Salesperson
SAO

SERVICE INVOICE

STK#/FLEET#	HRS	PIN/EIN	WARRANTY DATE	HRS
Z051422 ADTS	4493	1DW460PAVRFB08755	10/25/25	1000
UNIT#AD-4615 460P S		RG6135U050658	07/25/26	8000 PR

** Buy parts online and view your invoices at RDOequipment.com/account.

SEGMENT# 1 C SFE01 PM30-0500 12/12/25 12/16/25 12/12/25
500 HOUR SERVICE

CONDITION:

-Complete Service

REPAIR:

Drained and refill engine oil and replace filter
Replaced final fuel filter
Replaced aux fuel filter with water sep (if equipped)
Replaced primary fuel filter with water separator
Took hydraulic oil sample
Took transmission oil sample
Took axle oil sample
Checked park brake pad wear and lubricate linkage
Checked engine coolant level
Checked coolant condition.
Checked axle oil levels.
Checked and adjust dump body shock pads.
Checked hydraulic system oil level
Cleaned dust unloader valve
Checked transmission oil level
Checked air intake hoses and charge air cooler tube couplings
Lubricated greaseable steering cylinder pins
Lubricated tailgate pivots
Lubricated bin pivots
Lubricated lift cylinders
Lubricated art. joint, osc. joint, and through-drive bearing

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Date	Time	Page
12/22/25	21:49:17 (B)	02

Account No.	Phone No.	Invoice No.
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SERVICE INVOICE

STK#/FLEET#	HRS	PIN/EIN	WARRANTY DATE	HRS
Z051422 ADTS	4493	1DW460PAVRFB08755	10/25/25	1000
UNIT#AD-4615 460P S		RG6135U050658	07/25/26	8000 PR

Inspected automatic lubrication components (if equipped)

Took engine oil sample

Replaced primary air cleaner element

Replaced secondary air cleaner element

Replaced Cab and Recirc. Filters

Runned transmission clutch calibration (cab monitor)

Performed load sense calibration (cab monitor)

ADDITIONAL DESCRIPTION:

Drain and refill engine oil and replace filter

Replace final fuel filter

Replace aux fuel filter with water sep (if equipped)

Replace primary fuel filter with water separator

Take hydraulic oil sample

Take transmission oil sample

Take axle oil sample

Check park brake pad wear and lubricate linkage

Check engine coolant level

Check coolant condition.

Check axle oil levels.

Check and adjust dump body shock pads.

Check hydraulic system oil level

Clean dust unloader valve

Check transmission oil level

Check air intake hoses and charge air cooler tube couplings

Lubricate greaseable steering cylinder pins

Lubricate tailgate pivots

Lubricate bin pivots

Lubricate lift cylinders

Lubricate art. joint, osc. joint, and through-drive bearing

Inspect automatic lubrication components (if equipped)

CONTINUED ON PAGE 03

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Salesperson
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SERVICE INVOICE

STK#/FLEET#	HRS	PIN/EIN	WARRANTY DATE	HRS
Z051422 ADTS	4493	1DW460PAVRFB08755	10/25/25	1000
UNIT#AD-4615 460P S		RG6135U050658	07/25/26	8000 PR
Take engine oil sample				
Replace primary air cleaner element				
Replace secondary air cleaner element				
Replace Cab and Recirc. Filters				
Run transmission clutch calibration (cab monitor)				
Perform load sense calibration (cab monitor)				
AT191102	FILTER,CABFRESH	1	18.03	18.03
AT307501	FILTER,CABRECIR	1	14.29	14.29
AT315231	TEST/MEASURE SU	6	3.09	18.54
Test/Measure Supply Item				
AT346594	KIT	6	23.08	138.48
AT365869	FILTER,ADTLFUEL	1	58.60	58.60
DZ112918	FILTER ELEMENT	1	141.46	141.46
DZ130550	FILTER ELEMENT	1	139.23	139.23
FRT	SHIP/HANDLING	1	13.00	13.00
RE230985	AIR FILTER	1	99.48	99.48
RE261960	AIR FILTER	1	292.44	292.44
RE572785	OIL FILTER	1	78.76	78.76
TY26682	PLUS-50 TM ENGI	43	5.86	251.98
PLUS-50 II OIL 15W40 CK4/SN				
PARTS				1264.29
LABOR				973.50
24102054	SEGMENT TOTAL==>			2237.79

SEGMENT# 2 C SFE01 STT-20 12/12/25 12/16/25 12/12/25

TRAVEL, ROUND TRIP

CONDITION:

-Drive to ASN For service

REPAIR:

-Drove to ASN For service

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SERVICE INVOICE

STK#/FLEET#	HRS	PIN/EIN	WARRANTY DATE	HRS
Z051422 ADTS	4493	1DW460PAVRFB08755	10/25/25	1000
UNIT#AD-4615 460P S		RG6135U050658	07/25/26	8000 PR

-Drove back to the shop

ADDITIONAL DESCRIPTION:

Unit has Telematics.

Check JDLink or PreCise for location and verify with customer.

Change zone charge per location.

24102054	LABOR	142.40
	SEGMENT TOTAL==>	142.40

SEGMENT# 3 C SFE01 RDO-900-080 12/12/25 12/18/25 12/12/25

CUSTOMER MACHINE INSPECTION

CONDITION:

-Inspect machine for additional repairs

REPAIR:

Machine Inspection.

- ☒ Check machine over for any needed repairs or service.
- ☒ Check Fluid Levels.
- ☒ Check for leaks.
- ☒ Check A/C and Heater function.
- ☒ Check condition of hydraulic hoses and cylinders.
- ☒ Check and note any stored or active codes.
- ☒ Check for Loose or missing hardware.
- ☒ Check operation of machine.
- ☒ Check lights, wipers, and electrical system.
- ☒ Check condition of battery.
- ☒ Check condition of glass and sheet metal.
- ☒ Check safety items (horn, back up alarm, seat belt, signal lights).
- ☒ Check cutting edge's or bucket teeth (Ground Engagement).

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SERVICE INVOICE

STK#/FLEET#	HRS	PIN/EIN	WARRANTY DATE	HRS
Z051422 ADTS	4493	1DW460PAVRFB08755	10/25/25	1000
UNIT#AD-4615 460P S		RG6135U050658	07/25/26	8000 PR

- ☒ Check general condition of tires or tracks.
- ☒ Check pins and bushings.
- ☒ Check C-Frames for needed repairs.

Recommended Service or Repairs:

- 1.Oil line are starting to seep
- 2.grease line that needs replace
- 3.
- 4.
- 5.
- 6.
- 7.

Customer representative: _____

Date: _____

Approved or Declined: _____

"CFMI25"

ADDITIONAL DESCRIPTION:

Machine Inspection.

- ___ Check machine over for any needed repairs or service.
- ___ Check Fluid Levels.
- ___ Check for leaks.
- ___ Check A/C and Heater function.
- ___ Check condition of hydraulic hoses and cylinders.
- ___ Check and note any stored or active codes.
- ___ Check for Loose or missing hardware.
- ___ Check operation of machine.
- ___ Check lights, wipers, and electrical system.
- ___ Check condition of battery.
- ___ Check condition of glass and sheet metal.
- ___ Check safety items (horn, back up alarm, seat belt, signal lights).

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SERVICE INVOICE

STK#/FLEET#	HRS	PIN/EIN	WARRANTY DATE	HRS
Z051422 ADTS	4493	1DW460PAVRFB08755	10/25/25	1000
UNIT#AD-4615 460P S		RG6135U050658	07/25/26	8000 PR

___ Check cutting edge's or bucket teeth (Ground
Engagement).

___ Check general condition of tires or tracks.

___ Check pins and bushings.

___ Check C-Frames for needed repairs.

Recommended Service or Repairs:

- 1.
- 2.
- 3.
- 4.
- 5.
- 6.
- 7.

Customer representative: _____

Date: _____

Approved or Declined: _____

"CFMI25"

	LABOR	41.25
24102054	SEGMENT TOTAL==>	41.25

***** WORK ORDER TOTALS *****

PARTS	1264.29
LABOR	1157.15
SUB TOTAL==>	2421.44
CLAY CO County	6.32
MN STATE TAX	86.92
MOORHEAD City	6.32
CUSTOMER TOTAL	2521.00

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19:48:00 (B) Page
01

Account No.
7171051 Phone No.
7019971603 Invoice No.
W3785954

Ship Via Purchase Order
W15015

Tax Exemption Number Federal ID Number

Salesperson
SAO

SERVICE INVOICE

STK#/FLEET#	HRS	PIN/EIN	WARRANTY DATE	HRS
Z051422 ADTS	4661	1DW460PAVRFB08755	10/25/25	1000
UNIT#AD-4615 460P		RG6135U050658	07/25/26	8000 PR

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SEGMENT# 1 C TJ501 DIAG 12/27/25 12/27/25

DIAGNOSTICS

CONDITION:

Machine has an oil leak.

DIAGNOSTICS:

- Checked the machine for leaks, found there is engine oil leaking from the front of the machine.
- Checked for engine for leaks, there is oil all over the oil filter and the hoses to the filters.
- Cleaned oil off of the hoses and filter.
- Ran the machine to check for leaks, the hose from the filter head to the engine is leaking through the hose. The hose will need to be replaced.

	LABOR	171.60
10401099 10501054	SEGMENT TOTAL==>	171.60

SEGMENT# 2 C TJ501 STT-25 12/27/25 12/27/25

TRAVEL, ROUND TRIP

REPAIR:

Travel to the machine in West Fargo and back to Moorhead.

	LABOR	Warr/Int
10401099 10501054 24003054	SEGMENT TOTAL==>	Warr/Int

SEGMENT# 3 C TJ501 RDO-020-106 12/27/25 12/27/25

HOSE-REMOTE OIL FILTER RETURN, REPLACE AT393196

CONDITION:

Remote oil filter hose is leaking.

CONTINUED ON PAGE 02

Thank you for your business



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2960 34th Street S
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701-526-2200
Fax: 701-526-2201

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MyDealer website, please contact
RDOAR@rdoequipment.com

Ship to: N/A

Invoice to: ASN CONSTRUCTORS
4816 AMBER VALLEY PARKWAY, STE 100
FARGO ND 58104

Branch
MOORHEAD, MN

Date 12/31/25 Time 19:48:00 (B) Page 02

Account No. 7171051 Phone No. 7019971603 Invoice No. W3785954

Ship Via Purchase Order
W15015

Tax Exemption Number Federal ID Number

Salesperson
SAO

SERVICE INVOICE

STK#/FLEET#	HRS	PIN/EIN	WARRANTY DATE	HRS
Z051422 ADTS	4661	1DW460PAVRFB08755	10/25/25	1000
UNIT#AD-4615 460P		RG6135U050658	07/25/26	8000 PR

REPAIR:

-Disconnected the hose from the filter base
-Opened right cooling package doors..
-Unbolted the hydraulic cooler and swung it open to gain
access to the end of the hose on the engine.
-Disconnected the hose from the engine and pulled the hose
out of the machine.
-Installed a new hose with new o-rings.
-Bolted hydraulic cooler back in place and closed cooling
package doors.
-Ran the machine to check the hose for leaks, it looks ok
at this time.

AT393196	HYDRAULIC HOSE	1	441.60	441.60
T78612	O-RING (-20ORFS)	2	.94	1.88
	PARTS			443.48
	LABOR			220.00
10401099 10501054	SEGMENT TOTAL==>			663.48

***** WORK ORDER TOTALS *****

	INTERNAL	CUSTOMER
PARTS		443.48
LABOR	Warr/Int	391.60
SUB TOTAL==>	Warr/Int	835.08
CLAY CO County		2.21
MN STATE TAX		30.49
MOORHEAD City		2.22
INTERNAL TOTAL	Warr/Int	
TOTAL DUE RDO		870.00

CONTINUED ON PAGE 03

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Account No.	Phone No.	Invoice No.
7171051	7019971603	W3785954

Ship Via	Purchase Order
	W15015

Tax Exemption Number	Federal ID Number
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Salesperson
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SERVICE INVOICE

STK#/FLEET#	HRS	PIN/EIN	WARRANTY DATE	HRS
Z051422 ADTS	4661	1DW460PAVRFB08755	10/25/25	1000
UNIT#AD-4615 460P		RG6135U050658	07/25/26	8000 PR

| Payments are due on your RDO account 30 days from the invoice date |
+-----+

PLEASE REMIT TO: RDO EQUIPMENT CO.
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Date 01/13/26 Time 21:21:53 (B) Page 01

Account No. 7171051 Phone No. 7019971603 Invoice No. W3805254

Ship Via Purchase Order WO15336

Tax Exemption Number Federal ID Number

Salesperson
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SERVICE INVOICE

STK#/FLEET#	HRS	PIN/EIN	WARRANTY DATE	HRS
Z051422 ADTS	4919	1DW460PAVRFB08755	10/25/25	1000
UNIT#AD-4615 460P S		RG6135U050658	07/25/26	8000 PR

** Buy parts online and view your invoices at RDOequipment.com/account.

SEGMENT# 1 C SFE01 PM30-1000 01/12/26 01/12/26 01/12/26
1000 HOUR SERVICE

CONDITION:

-Complete Service

REPAIR:

Drained and refill engine oil and replace filter
Replaced final fuel filter
Replaced aux fuel filter with water sep (if equipped)
Replaced primary fuel filter with water separator
Taken hydraulic oil sample
Taken transmission oil sample
Taken axle oil sample
Checked park brake pad wear and lubricate linkage
Checked engine coolant level
Checked coolant condition.
Checked axle oil levels.
Checked and adjust dump body shock pads.
Checked hydraulic system oil level
Cleaned dust unloader valve
Checked transmission oil level
Checked air intake hoses and charge air cooler tube couplings
Lubricated greaseable steering cylinder pins
Lubricated tailgate pivots
Lubricated bin pivots
Lubricated lift cylinders
Lubricated art. joint, osc. joint, and through-drive

CONTINUED ON PAGE 02

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Date	Time	Page
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Account No.	Phone No.	Invoice No.
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Ship Via	Purchase Order
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Tax Exemption Number	Federal ID Number
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Salesperson
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SERVICE INVOICE

STK#/FLEET#	HRS	PIN/EIN	WARRANTY DATE	HRS
Z051422 ADTS	4919	1DW460PAVRFB08755	10/25/25	1000
UNIT#AD-4615 460P	S	RG6135U050658	07/25/26	8000 PR

bearing

Inspected automatic lubrication components (if equipped)

Taken engine oil sample

Replaced primary air cleaner element

Replaced secondary air cleaner element

Replaced Cab and Recirc. Filters

Runned transmission clutch calibration (cab monitor)

Performed load sense calibration (cab monitor)

ADDITIONAL DESCRIPTION:

Drain and refill engine oil and replace filter

Replace final fuel filter

Replace aux fuel filter with water sep (if equipped)

Replace primary fuel filter with water separator

Take hydraulic oil sample

Take transmission oil sample

Take axle oil sample

Check park brake pad wear and lubricate linkage

Check engine coolant level

Check coolant condition.

Check axle oil levels.

Check and adjust dump body shock pads.

Check hydraulic system oil level

Clean dust unloader valve

Check transmission oil level

Check air intake hoses and charge air cooler tube couplings

Lubricate greaseable steering cylinder pins

Lubricate tailgate pivots

Lubricate bin pivots

Lubricate lift cylinders

Lubricate art. joint, osc. joint, and through-drive bearing

CONTINUED ON PAGE 03

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Date 01/13/26 Time 21:21:53 (B) Page 03

Account No. 7171051 Phone No. 7019971603 Invoice No. W3805254

Ship Via Purchase Order WO15336

Tax Exemption Number Federal ID Number

Salesperson
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SERVICE INVOICE

STK#/FLEET#	HRS	PIN/EIN	WARRANTY DATE	HRS
Z051422 ADTS	4919	1DW460PAVRFB08755	10/25/25	1000
UNIT#AD-4615 460P S		RG6135U050658	07/25/26	8000 PR
Inspect automatic lubrication components (if equipped)				
Take engine oil sample				
Replace primary air cleaner element				
Replace secondary air cleaner element				
Replace Cab and Recirc. Filters				
Run transmission clutch calibration (cab monitor)				
Perform load sense calibration (cab monitor)				
AT191102	FILTER,CABFRESH	1	18.03	18.03
AT307501	FILTER,CABRECIR	1	14.29	14.29
AT315231	TEST/MEASURE SU	6	3.09	18.54
Test/Measure Supply Item				
AT346594	KIT	6	23.08	138.48
AT365869	FILTER,ADTLFUEL	1	58.60	58.60
DZ112918	FILTER ELEMENT	1	141.46	141.46
DZ130550	FILTER ELEMENT	1	139.23	139.23
FRT	SHIP/HANDLING	1	14.00	14.00
RE230985	AIR FILTER	1	99.48	99.48
RE261960	AIR FILTER	1	292.44	292.44
RE572785	OIL FILTER	1	78.76	78.76
TY26101	BRAKE CLEANER	1	6.99	6.99
Cleaning Solvent				
TY26682	PLUS-50 TM ENGI	46	5.86	269.56
PLUS-50 II OIL 15W40 CK4/SN				
PARTS				1289.86
LABOR				973.50
24102054	SEGMENT TOTAL==>			2263.36

SEGMENT# 2 C SFE01 STT-15 01/12/26 01/12/26 01/12/26
 TRAVEL, ROUND TRIP
CONDITION:

CONTINUED ON PAGE 04

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Date 01/13/26 Time 21:21:53 (B) Page 04

Account No. 7171051 Phone No. 7019971603 Invoice No. W3805254

Ship Via Purchase Order
WO15336

Tax Exemption Number Federal ID Number

Salesperson
SAO

SERVICE INVOICE

STK#/FLEET#	HRS	PIN/EIN	WARRANTY DATE	HRS
Z051422 ADTS	4919	1DW460PAVRFB08755	10/25/25	1000
UNIT#AD-4615 460P S		RG6135U050658	07/25/26	8000 PR

-Drive to ASN for service

REPAIR:

-Drove to ASN For service

-Drove back to the shop

ADDITIONAL DESCRIPTION:

Unit has Telematics

Check Pedigree for location and verify with customer

Change zone charge per location.

	LABOR	107.20
24102054	SEGMENT TOTAL==>	107.20

SEGMENT# 3 C SFE01 RDO-900-080 01/12/26 01/12/26 01/12/26

CUSTOMER MACHINE INSPECTION

CONDITION:

-Inspect machine for additional repairs

REPAIR:

Machine Inspection.

x Check machine over for any needed repairs or service.

x Check Fluid Levels.

x Check for leaks.

x Check A/C and Heater function.

x Check condition of hydraulic hoses and cylinders.

x Check and note any stored or active codes.

x Check for Loose or missing hardware.

x Check operation of machine.

x Check lights, wipers, and electrical system.

x Check condition of battery.

x Check condition of glass and sheet metal.

x Check safety items (horn, back up alarm, seat belt, signal lights).

CONTINUED ON PAGE 05

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Date	Time	Page
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Account No.	Phone No.	Invoice No.
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Ship Via	Purchase Order
	WO15336

Tax Exemption Number	Federal ID Number
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Salesperson
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SERVICE INVOICE

STK#/FLEET#	HRS	PIN/EIN	WARRANTY DATE	HRS
Z051422 ADTS	4919	1DW460PAVRFB08755	10/25/25	1000
UNIT#AD-4615 460P S		RG6135U050658	07/25/26	8000 PR

☒ Check cutting edge's or bucket teeth (Ground Engagement).

☒ Check general condition of tires or tracks.

☒ Check pins and bushings.

☒ Check C-Frames for needed repairs.

Recommended Service or Repairs:

1.exhaust bend pipe is broken and leaving soot on machine i
did note and told ASN

- 2.
- 3.
- 4.
- 5.
- 6.
- 7.

Customer representative: _____

Date: _____

Approved or Declined: _____

"CFMI25"

ADDITIONAL DESCRIPTION:

Machine Inspection.

- ___ Check machine over for any needed repairs or service.
- ___ Check Fluid Levels.
- ___ Check for leaks.
- ___ Check A/C and Heater function.
- ___ Check condition of hydraulic hoses and cylinders.
- ___ Check and note any stored or active codes.
- ___ Check for Loose or missing hardware.
- ___ Check operation of machine.
- ___ Check lights, wipers, and electrical system.
- ___ Check condition of battery.

CONTINUED ON PAGE 06

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Date 01/13/26 Time 21:21:53 (B) Page 06

Account No. 7171051 Phone No. 7019971603 Invoice No. W3805254

Ship Via Purchase Order
WO15336

Tax Exemption Number Federal ID Number

Salesperson
SAO

SERVICE INVOICE

STK#/FLEET#	HRS	PIN/EIN	WARRANTY DATE	HRS
Z051422 ADTS	4919	1DW460PAVRFB08755	10/25/25	1000
UNIT#AD-4615 460P S		RG6135U050658	07/25/26	8000 PR

- ___ Check condition of glass and sheet metal.
- ___ Check safety items (horn, back up alarm, seat belt, signal lights).
- ___ Check cutting edge's or bucket teeth (Ground Engagement).
- ___ Check general condition of tires or tracks.
- ___ Check pins and bushings.
- ___ Check C-Frames for needed repairs.

Recommended Service or Repairs:

- 1.
- 2.
- 3.
- 4.
- 5.
- 6.
- 7.

Customer representative: _____

Date: _____

Approved or Declined: _____

"CFMI25"

	LABOR	41.25
24102054	SEGMENT TOTAL==>	41.25

***** WORK ORDER TOTALS *****

PARTS	1289.86
LABOR	1121.95
SUB TOTAL==>	2411.81
CLAY CO County	6.45

CONTINUED ON PAGE 07

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Date	Time	Page
01/13/26	21:21:53 (B)	07

Account No.	Phone No.	Invoice No.
7171051	7019971603	W3805254

Ship Via	Purchase Order
	W015336

Tax Exemption Number	Federal ID Number

Salesperson
SAO

SERVICE INVOICE

STK#/FLEET#	HRS	PIN/EIN	WARRANTY DATE	HRS
Z051422 ADTS	4919	1DW460PAVRFB08755	10/25/25	1000
UNIT#AD-4615 460P	S	RG6135U050658	07/25/26	8000 PR
		MN STATE TAX		88.68
		MOORHEAD City		6.45
		CUSTOMER TOTAL		2513.39

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Date
02/13/26 Time
21:20:25 (B) Page
01

Account No.
7171051 Phone No.
7019971603 Invoice No.
W3832854

Ship Via
W99/EAG Purchase Order
WO15804

Tax Exemption Number Federal ID Number

Salesperson
SAO / SAO

SERVICE INVOICE

STK#/FLEET#	HRS	PIN/EIN	WARRANTY DATE	HRS
Z051422 ADTS	5141	1DW460PAVRFB08755	10/25/25	1000
UNIT#AD-4615 460P		RG6135U050658	07/25/26	8000 PR

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SEGMENT# 1 C ANJ01 DIAG 01/28/26 01/28/26 2.00 HRS

DIAGNOSTICS

CONDITION:

CUSTOMER STATES TRANS OIL TEMP HIGH.

DIAGNOSTICS:

I ran the machine through all the normal checks:
Transmission WarmUp Test: It passed = nothing wrong there.
Stall Test: It passed = the transmission is able to make
full power and no converter issues causing overheating.
Hydraulics Warmed Up: Got everything to normal operating
temperature for further testing.
I then checked the cooling system:
The cooler wasn't blocked = air is flowing normally.
I checked the fan speeds, and found that the right-side fan
would not speed up when the system told it to.
That right side is the one that cools the transmission.
To make sure the problem wasn't caused by the electrically
controlled parts that control the fan:
I swapped solenoids valves (the electrical valves) between
sides
The problem stayed on the right side.
I also swapped the speed control solenoids and valves on
the pump
Problem still stayed on the right side.
This told me the electrical controlled parts were not the
issue.
Next, I tested the fan motor itself by checking how much

CONTINUED ON PAGE 02

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Date 02/13/26 Time 21:20:25 (B) Page 02

Account No. 7171051 Phone No. 7019971603 Invoice No. W3832854

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Salesperson
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SERVICE INVOICE

STK#/FLEET#	HRS	PIN/EIN	WARRANTY DATE	HRS
Z051422 ADTS	5141	1DW460PAVRFB08755	10/25/25	1000
UNIT#AD-4615 460P		RG6135U050658	07/25/26	8000 PR

oil leaks out of it internally (called a case drain test).

The maximum allowed amount is: 1.6 gallons per minute

The motor was leaking: 3 gallons per minute

Almost double the limit

Because it's leaking too much internally, the fan motor
can't build enough power to speed up like it should.

Conclusion

The right-side fan motor is FAULTY due to excessive
internal leakage causing transmission overheating.

This is why the fan speed will not increase when commanded.

	LABOR	Warranty
10401099 10501054	SEGMENT TOTAL==>	Warranty

SEGMENT# 2 C ANJ01 STT-20	01/28/26 01/28/26	
TRAVEL, ROUND TRIP		1.78 HRS

REPAIR:

Traveled to and from machine RCH8

ADDITIONAL DESCRIPTION:

TRAVEL TO AND FROM CUSTOMER'S MACHINE LOCATION.

	LABOR	Warr/Int
10401099 10501054 24003054	SEGMENT TOTAL==>	Warr/Int

SEGMENT# 3 C ANJ01 RDO-070-230	01/28/26 01/28/26	
HYDRAULIC FAN MOTOR, REPLACE		2.00 HRS

REPAIR:

Disconnect hydraulic lines from hydraulic motor.

Unbolt and remove fan from hydraulic motor.

Unbolt hydraulic motor and remove from machine.

Transfer fittings to new hydraulic motor then install new
motor.

CONTINUED ON PAGE 03

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Date 02/13/26 Time 21:20:25 (B) Page 03

Account No. 7171051 Phone No. 7019971603 Invoice No. W3832854

Ship Via W99/EAG Purchase Order WO15804

Tax Exemption Number Federal ID Number

Salesperson
SAO / SAO

SERVICE INVOICE

STK#/FLEET#	HRS	PIN/EIN	WARRANTY DATE	HRS
Z051422 ADTS	5141	1DW460PAVRFB08755	10/25/25	1000
UNIT#AD-4615 460P		RG6135U050658	07/25/26	8000 PR

Test operation.

ADDITIONAL DESCRIPTION:

Failed Part #:AT427001
Failed/Function Area:2163 Hydraulic Lines & Hoses
Failed Type Code:13
DTAC Case / Solution #:
Diagnostic Hours:

If Reman, Failed Serial #:

New Serial #:

rck1

AT427001	HYDRAULIC MOTOR	1 N Warranty	Warranty
----------	-----------------	--------------	----------

PARTS Warranty

LABOR Warranty

10401099 10501054	SEGMENT TOTAL==>	Warranty
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***** WORK ORDER TOTALS *****

INTERNAL CUSTOMER

PARTS Warr/Int

LABOR Warr/Int

INTERNAL TOTAL Warr/Int

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Date 03/18/26 Time 21:08:27 (B) Page 01

Account No. 7171051 Phone No. 7019971603 Invoice No. W3878654

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Tax Exemption Number Federal ID Number

Salesperson
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SERVICE INVOICE

STK#/FLEET#	HRS	PIN/EIN	WARRANTY DATE	HRS
Z051422 ADTS	5419	1DW460PAVRFB08755	10/25/25	1000
UNIT#AD-4615 460P S		RG6135U050658	07/25/26	8000 PR

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SEGMENT# 1 C SFE01 PM30-0500 03/02/26 03/13/26 03/02/26
500 HOUR SERVICE 5.90 HRS

CONDITION:

-Completed Service

REPAIR:

Drained and refill engine oil and replace filter
Replaced final fuel filter
Replaced aux fuel filter with water sep (if equipped)
Replaced primary fuel filter with water separator
Taken hydraulic oil sample
Taken transmission oil sample
Taken axle oil sample
Checked park brake pad wear and lubricate linkage
Checked engine coolant level
Checked coolant condition.
Checked axle oil levels.
Checked and adjust dump body shock pads.
Checked hydraulic system oil level
Cleaned dust unloader valve
Checked transmission oil level
Checked air intake hoses and charge air cooler tube couplings
Lubricated greaseable steering cylinder pins
Lubricated tailgate pivots
Lubricated bin pivots
Lubricated lift cylinders
Lubricated art. joint, osc. joint, and through-drive bearing

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Date	Time	Page
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Account No.	Phone No.	Invoice No.
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Ship Via	Purchase Order
	BILLEDMONTHLY

Tax Exemption Number	Federal ID Number
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Salesperson
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SERVICE INVOICE

STK#/FLEET#	HRS	PIN/EIN	WARRANTY DATE	HRS
Z051422 ADTS	5419	1DW460PAVRFB08755	10/25/25	1000
UNIT#AD-4615 460P S		RG6135U050658	07/25/26	8000 PR

Inspected automatic lubrication components (if equipped)

Taken engine oil sample

Replaced primary air cleaner element

Replaced secondary air cleaner element

Replaced Cab and Recirc. Filters

Runned transmission clutch calibration (cab monitor)

Performed load sense calibration (cab monitor)

ADDITIONAL DESCRIPTION:

Drain and refill engine oil and replace filter

Replace final fuel filter

Replace aux fuel filter with water sep (if equipped)

Replace primary fuel filter with water separator

Take hydraulic oil sample

Take transmission oil sample

Take axle oil sample

Check park brake pad wear and lubricate linkage

Check engine coolant level

Check coolant condition.

Check axle oil levels.

Check and adjust dump body shock pads.

Check hydraulic system oil level

Clean dust unloader valve

Check transmission oil level

Check air intake hoses and charge air cooler tube couplings

Lubricate greaseable steering cylinder pins

Lubricate tailgate pivots

Lubricate bin pivots

Lubricate lift cylinders

Lubricate art. joint, osc. joint, and through-drive bearing

Inspect automatic lubrication components (if equipped)

CONTINUED ON PAGE 03

Thank you for your business



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Fax: 701-526-2201

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MyDealer website, please contact
RDOAR@rdoequipment.com

Ship to: N/A

Invoice to: ASN CONSTRUCTORS
4816 AMBER VALLEY PARKWAY, STE 100
FARGO ND 58104

Branch
MOORHEAD, MN

Date 03/18/26 Time 21:08:27 (B) Page 03

Account No. 7171051 Phone No. 7019971603 Invoice No. W3878654

Ship Via Purchase Order
BILLEDMONTHLY

Tax Exemption Number Federal ID Number

Salesperson
SAO

SERVICE INVOICE

STK#/FLEET#	HRS	PIN/EIN	WARRANTY DATE	HRS
Z051422 ADTS	5419	1DW460PAVRFB08755	10/25/25	1000
UNIT#AD-4615 460P S		RG6135U050658	07/25/26	8000 PR
Take engine oil sample				
Replace primary air cleaner element				
Replace secondary air cleaner element				
Replace Cab and Recirc. Filters				
Run transmission clutch calibration (cab monitor)				
Perform load sense calibration (cab monitor)				
AT191102	FILTER, CABFRESH	1	Internal	Internal
AT307501	FILTER, CABRECIR	1	Internal	Internal
AT315231	TEST/MEASURE SU	6	Internal	Internal
Test/Measure Supply Item				
AT346594	KIT	6	Internal	Internal
AT365869	FILTER, ADTLFUEL	1	Internal	Internal
DZ112918	FILTER ELEMENT	1	Internal	Internal
DZ130550	FILTER ELEMENT	1	Internal	Internal
FRT	SHIP/HANDLING	1	Internal	Internal
RE230985	AIR FILTER	1	Internal	Internal
RE261960	AIR FILTER	1	Internal	Internal
RE572785	OIL FILTER	1	Internal	Internal
TY26682	PLUS-50 TM ENGI	45	Internal	Internal
PLUS-50 II OIL 15W40 CK4/SN				
			PARTS	Internal
			LABOR	Internal
24102054	24001054	SEGMENT TOTAL==>	Internal	

SEGMENT# 2 C SFE01 STT-10 03/02/26 03/13/26 03/02/26 .44 HRS

TRAVEL, ROUND TRIP

CONDITION:

-Drive to ASN For service

REPAIR:

-Drove to ASN for service

CONTINUED ON PAGE 04

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SERVICE INVOICE

STK#/FLEET#	HRS	PIN/EIN	WARRANTY DATE	HRS
Z051422 ADTS	5419	1DW460PAVRFB08755	10/25/25	1000
UNIT#AD-4615 460P S		RG6135U050658	07/25/26	8000 PR

-Drove back to the shop

ADDITIONAL DESCRIPTION:

Unit has Telematics
Check Pedigree for location and verify with customer
Change zone charge per location.

	LABOR	Internal
24102054 24001054	SEGMENT TOTAL==>	Internal

SEGMENT# 3 C SFE01 RDO-900-080 03/02/26 03/16/26 03/02/26
CUSTOMER MACHINE INSPECTION .25 HRS

CONDITION:

-Inspect machine for additional repairs

REPAIR:

Machine Inspection.

- ☒ Check machine over for any needed repairs or service.
- ☒ Check Fluid Levels.
- ☒ Check for leaks.
- ☒ Check A/C and Heater function.
- ☒ Check condition of hydraulic hoses and cylinders.
- ☒ Check and note any stored or active codes.
- ☒ Check for Loose or missing hardware.
- ☒ Check operation of machine.
- ☒ Check lights, wipers, and electrical system.
- ☒ Check condition of battery.
- ☒ Check condition of glass and sheet metal.
- ☒ Check safety items (horn, back up alarm, seat belt, signal lights).
- ☒ Check cutting edge's or bucket teeth (Ground Engagement).
- ☒ Check general condition of tires or tracks.

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Tax Exemption Number Federal ID Number

Salesperson
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SERVICE INVOICE

STK#/FLEET#	HRS	PIN/EIN	WARRANTY DATE	HRS
Z051422 ADTS	5419	1DW460PAVRFB08755	10/25/25	1000
UNIT#AD-4615 460P S		RG6135U050658	07/25/26	8000 PR

☒ Check pins and bushings.

☒ Check C-Frames for needed repairs.

Recommended Service or Repairs:

1.nothing at this time

2.

3.

4.

5.

6.

7.

Customer representative: _____

Date: _____

Approved or Declined: _____

"CFMI25"

ADDITIONAL DESCRIPTION:

Machine Inspection.

___ Check machine over for any needed repairs or service.

___ Check Fluid Levels.

___ Check for leaks.

___ Check A/C and Heater function.

___ Check condition of hydraulic hoses and cylinders.

___ Check and note any stored or active codes.

___ Check for Loose or missing hardware.

___ Check operation of machine.

___ Check lights, wipers, and electrical system.

___ Check condition of battery.

___ Check condition of glass and sheet metal.

___ Check safety items (horn, back up alarm, seat belt, signal lights).

___ Check cutting edge's or bucket teeth (Ground

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SERVICE INVOICE

STK#/FLEET#	HRS	PIN/EIN	WARRANTY DATE	HRS
Z051422 ADTS	5419	1DW460PAVRFB08755	10/25/25	1000
UNIT#AD-4615 460P	S	RG6135U050658	07/25/26	8000 PR

Engagement).

___ Check general condition of tires or tracks.

___ Check pins and bushings.

___ Check C-Frames for needed repairs.

Recommended Service or Repairs:

- 1.
- 2.
- 3.
- 4.
- 5.
- 6.
- 7.

Customer representative: _____

Date: _____

Approved or Declined: _____

"CFMI25"

	LABOR	Internal
24102054	24001054	SEGMENT TOTAL==> Internal

***** WORK ORDER TOTALS *****

INTERNAL CUSTOMER

PARTS Internal

LABOR Internal

INTERNAL TOTAL Internal

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Salesperson
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SERVICE INVOICE

STK#/FLEET#	HRS	PIN/EIN	WARRANTY DATE	HRS
Z051422 ADTS	5919	1DW460PAVRFB08755	10/25/25	1000
UNIT#AD-4615 460P S		RG6135U050658	07/25/26	8000 PR

** Buy parts online and view your invoices at RDOequipment.com/account.

SEGMENT# 1 C ANJ01 PM30-6000 05/19/26 05/20/26 05/19/26
6000 HOUR SERVICE
Drain and refill axle oil
Drain and refill engine cooling system
Drain and refill engine oil and replace filter
Drain and refill transmission oil
Replace aux fuel filter with water sep (if equipped)
Replace axle oil filters
Replace final fuel filter
Replace fuel tank breather filter
Replace primary fuel filter with water separator
Replace transmission oil filters
Run transmission clutch calibration (cab monitor)
Check air intake hoses and charge air cooler tube couplings
Check and adjust dump body shock pads
Check coolant condition
Check hydraulic system oil level
Check park brake pad wear and lubricate linkage
Check transmission oil level
Clean and inspect axle breathers
Clean dust unloader valve
Inspect auto-lube internal pump filter
Inspect driveline torsional coupler
Inspect automatic lubrication components
Lubricate art. joint, osc. joint, and through-drive bearing
Lubricate axle seals
Lubricate bin pivots

CONTINUED ON PAGE 02

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Salesperson
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SERVICE INVOICE

STK#/FLEET#	HRS	PIN/EIN	WARRANTY DATE	HRS
Z051422 ADTS	5919	1DW460PAVRFB08755	10/25/25	1000
UNIT#AD-4615 460P S		RG6135U050658	07/25/26	8000 PR
Lubricate greaseable steering cylinder pins				
Lubricate lift cylinders				
Lubricate tailgate pivots				
Take axle oil sample				
Take hydraulic oil sample				
Take engine oil sample				
Take transmission oil sample				
Perform load sense calibration (cab monitor)				
Replace DEF Dosing Unit Filter (if equipped)				
Replace Inline DEF Filter (if equipped)				
Replace primary air cleaner element				
Replace secondary air cleaner element				
Replace Cab and Recirc. Filters				
AM39653	OIL FILTER	1	9.26	9.26
AT191102	FILTER,CABFRESH	1	18.03	18.03
AT307501	FILTER,CABRECIR	1	14.29	14.29
AT315231	TEST/MEASURE SU	6	3.09	18.54
Test/Measure Supply Item				
AT346594	KIT	6	18.95	113.70
AT365869	FILTER,ADTLFUEL	1	58.60	58.60
AT418095	HYDRAULIC FILTE	3	112.49	337.47
Hydraulic Filter				
AT468647	OIL FILTER	2	58.86	117.72
DZ112918	FILTER ELEMENT	1	141.47	141.47
DZ114640	FILTER KIT	1	123.01	123.01
DZ124403	FILTER KIT	1	70.97	70.97
DZ130550	FILTER ELEMENT	1	123.29	123.29
FRT	SHIP/HANDLING	1	14.50	14.50
H216169	BREATHER	1	22.22	22.22
RE230985	AIR FILTER	1	99.48	99.48

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SERVICE INVOICE

STK#/FLEET#	HRS	PIN/EIN	WARRANTY DATE	HRS
Z051422 ADTS	5919	1DW460PAVRFB08755	10/25/25	1000
UNIT#AD-4615 460P S		RG6135U050658	07/25/26	8000 PR
RE261960	AIR FILTER	1	292.44	292.44
RE572785	OIL FILTER	1	78.76	78.76
TY26101	BRAKE CLEANER	3	6.99	20.97
	Cleaning Solvent			
TY26576	COOL-GARD 2.5	8	43.64	349.12
TY26675	15W40 +50 2.5G	5	71.89	359.45
	PLUS-50 II OIL			
TY27743	15W40 CK4/SN	2	557.19	1114.38
	HD SYNTRAN 5GAL			
			PARTS	3497.67
			LABOR	2458.50
24102054			SEGMENT TOTAL==>	5956.17

SEGMENT# 2 C ANJ01 STT-15 05/19/26 05/21/26 05/19/26

TRAVEL, ROUND TRIP

Unit has Telematics.

Check JDLink or PreCise for location and verify with
customer.

Change zone charge per location.

	LABOR	83.75
24102054	SEGMENT TOTAL==>	83.75

SEGMENT# 3 C ANJ01 RDO-900-080 05/19/26 05/27/26 05/19/26

CUSTOMER MACHINE INSPECTION

REPAIR:

Found the fallowing major metal flakes found in front diff

Precleaner motor need replacing

Oil pushing into coolant

ADDITIONAL DESCRIPTION:

Machine Inspection.

___ Check machine over for any needed repairs or service.

CONTINUED ON PAGE 04

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Tax Exemption Number	Federal ID Number

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SAO

SERVICE INVOICE

STK#/FLEET#	HRS	PIN/EIN	WARRANTY DATE	HRS
Z051422 ADTS	5919	1DW460PAVRFB08755	10/25/25	1000
UNIT#AD-4615 460P S		RG6135U050658	07/25/26	8000 PR

- ___ Check Fluid Levels.
- ___ Check for leaks.
- ___ Check A/C and Heater function.
- ___ Check condition of hydraulic hoses and cylinders.
- ___ Check and note any stored or active codes.
- ___ Check for Loose or missing hardware.
- ___ Check operation of machine.
- ___ Check lights, wipers, and electrical system.
- ___ Check condition of battery.
- ___ Check condition of glass and sheet metal.
- ___ Check safety items (horn, back up alarm, seat belt, signal lights).
- ___ Check cutting edge's or bucket teeth (Ground Engagement).
- ___ Check general condition of tires or tracks.
- ___ Check pins and bushings.
- ___ Check C-Frames for needed repairs.

Recommended Service or Repairs:

- 1.
- 2.
- 3.
- 4.
- 5.
- 6.
- 7.

Customer representative: _____

Date: _____

Approved or Declined: _____

"CFMI25"

LABOR
CONTINUED ON PAGE 05

41.25

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SERVICE INVOICE

STK#/FLEET#	HRS	PIN/EIN	WARRANTY DATE	HRS
Z051422 ADTS	5919	1DW460PAVRFB08755	10/25/25	1000
UNIT#AD-4615 460P	S	RG6135U050658	07/25/26	8000 PR
24102054		SEGMENT TOTAL==>		41.25

***** WORK ORDER TOTALS *****

PARTS	3497.67
LABOR	2583.50
SUB TOTAL==>	6081.17
CLAY CO County	17.49
MN STATE TAX	240.46
MOORHEAD City	17.49
CUSTOMER TOTAL	6356.61

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Tax Exemption Number Federal ID Number

Salesperson
DUD / DUD

SERVICE INVOICE

STK#/FLEET#	HRS	PIN/EIN	WARRANTY DATE	HRS
Z051422 ADTS	5970	1DW460PAVRFB08755	10/25/25	1000
UNIT#AD-4615 460P		RG6135U050658	07/25/26	8000 PR

** Buy parts online and view your invoices at RDOequipment.com/account.

SEGMENT# 1 C NDG01 NA 06/04/26 06/04/26
REPLACE HEAD BOLTS 10.00 HRS

CONDITION:

- During valve set, noticed machine had oil in the coolant,
- Pulled samples to diagnose.

DIAGNOSTICS:

- PULLED UNIT IN AND PERFORMED VISUAL INSPECTION
- FOUND COOLANT TANK TO BE CONTAMINATED WITH OIL AND LOW
- FOUND AN EXTERNAL COOLANT LEAK FROM THE THERMOSTAT HOUSING
- RETRIEVED ENGINE OIL SAMPLE PERFORMED DURING INSPECTION
- ENGINE OIL WAS NOT FLAGGED FOR COOLANT IN OIL, ABNORMAL WEAR METALS, OR EXCESS SOOT LEVELS
- PERFORMED 2 TESTS FOR COMUSTION GASES IN COOLANT, BOTH PASSED
- VERIFIED UNDER OPERATING TEMPERATURE THE COOLING SYSTEM IS NOT GETTING OVERPRESSURISED
- REFERENCED CCMS CASE NUMBERS 6135 AND 216428
- UNIT EXHIBITS THE SAME SYMPTOMS OUTLINED IN THESE CASES THAT COVER HEADBOLTS 20/24 LEAKING OIL PAST THE INTEGRATED SEALS INTO THE COOLING SYSTEM
- ORDERED PARTS AND PERFORMED REPAIR FOR DIAGNOSIS
- NOTED THE ENGINE OIL TO BE OVERFILLED DURING THE SERVICE BY A LARGE AMOUNT
- PULLED THE OIL DRAIN COVER ON THE BELLY AND DRAINED EXCESS OIL, FOUND NO SIGNS OF ABNORMALITIES
- DRAINED COOLANT AND REMOVED THERMOSTATS
- REMOVED HEADBOLTS 20/24

CONTINUED ON PAGE 02

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Tax Exemption Number Federal ID Number

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SERVICE INVOICE

STK#/FLEET#	HRS	PIN/EIN	WARRANTY DATE	HRS
Z051422 ADTS	5970	1DW460PAVRFB08755	10/25/25	1000
UNIT#AD-4615 460P		RG6135U050658	07/25/26	8000 PR

- FOUND SEALS TO BE HARDENED AND DAMAGED

ADDITIONAL DESCRIPTION:

Failed Part #: DZ120878

Failed/Function Area: 5111

Failed Type Code: 14

DTAC Case / Solution #: 216428

Diagnostic Hours: 2 Hours. Segments 1, 4, 5, 6, and 7 go together.

AT346594	KIT	5	Warranty	Warranty
DZ120878	CAP SCREW	2 N	Warranty	Warranty
R531582	GASKET	1	Warranty	Warranty
TY22028	HY-GARD TM	170	Warranty	Warranty
	Trans Hyd Fluid, ISO 57			
TY26349	TUBE,OIL SAMPLE	108	Warranty	Warranty
TY26387	TOWEL	1	Warranty	Warranty
T174427	CLAMP	4	Warranty	Warranty
T77613	O-RING (-6 ORFS)	6	Warranty	Warranty
T77814	O-RING (-4 ORFS)	4	Warranty	Warranty
51M7040	O-RING	1	Warranty	Warranty
51M7047	O-RING	1	Warranty	Warranty
	PARTS		Warranty	
	LABOR		Warranty	
10401099 10501054	SEGMENT TOTAL==>		Warranty	

SEGMENT# 2 C LKJ01 DIAG 06/04/26 06/04/26 2.25 HRS

DIAGNOSTICS

CONDITION:

-Customer states machine has metal in front axle, pulled samples to diagnose.

DIAGNOSTICS:

CONTINUED ON PAGE 03

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SERVICE INVOICE

STK#/FLEET#	HRS	PIN/EIN	WARRANTY DATE	HRS
Z051422 ADTS	5970	1DW460PAVRFB08755	10/25/25	1000
UNIT#AD-4615 460P		RG6135U050658	07/25/26	8000 PR

- PULLED SAMPLE UPON ARRIVAL
- VERIFIED TECHNICIAN CONCERN WITH VISUAL INSPECTION OF FILTER
- CUT OPEN FILTER AND INSPECTED CONTENTS, FOUND IT TO BE COMPOSED OF FINE PARTICULATES AND FLAKES
- INSPECTED OIL SAMPLE SUBMITTED BY TECH, LAST READING OF IRON CONTENT IN OIL WAS 29 PPM, NOT DEEMED ABNORMAL OR FLAGGED
- CHECKED OIL LEVEL, FOUND IT OVERFILLED SIGNIFICANTLY
- PULLED PLANETARY COVERS AND INSPECTED THE NEEDLE ROLLER BEARING AND RACES FOR THE SUN GEAR
- FOUND NO DAMAGE TO EITHER SIDE AND FOUND VISIBLE DAMAGE TO THE ONBOARD PLANETARIES
- REMOVED THE SERVICE BRAKE COVERS AND INSPECTED THE SERVICE BRAKES, FOUND NO DAMAGE OR SIGNS OF ABNORMAL WEAR
- INSPECTED THE PINION FOR VERTICAL MOVEMENT, FOUND NO EXCESS MOVEMENT
- PERFORMED VISUAL INSPECTION OF HUB SEALS FOR AN INDICATOR THE AXLE DEFLECTION WAS EXCESSIVE, FOUND NO FAULTS
- PULLED DRAIN PLUG AND INSPECTED, FOUND NO FAULTS
- VERBAL COMMUNICATION DETERMINED TECH WIPE PLUG CLEAN DURING SERVICE
- CREATED A CCMS CASE (CCMS-442746) AND SUBMITTED PICTURES AND REQUESTED DIAGNOSTIC ASSISTANCE OR A STATEMENT ON IF THIS WAS NORMAL WEAR
- WAS TOLD TO CONTINUE OPERATION AND RUN
- WAS PROVIDED A PICTURE OF THE DRAIN PLUG, DETERMINED MATERIALS TO BE FLAKES, HIGH PROBABILITY IT IS FROM A HARDENED COMPONENT FAILING
- NOTIFIED SERVICE AND CAME TO CONSLUSION THE MATERIALS

CONTINUED ON PAGE 04

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SERVICE INVOICE

STK#/FLEET#	HRS	PIN/EIN	WARRANTY DATE	HRS
Z051422 ADTS	5970	1DW460PAVRFB08755	10/25/25	1000
UNIT#AD-4615 460P		RG6135U050658	07/25/26	8000 PR

EXHIBITED WERE ABNORMAL AND AXLE SHOULD BE INSPECTED

-Removed axle and disassembled axle found that all component had extreme wear.

-Axle had wear on the brake discs, brake spring, sun and planetary gears, ring and pinion all had wear.

-It appears that metal had chipped from an axle component.

-Axle had metal in all the bearings and all gears were damaged from the metal.

-After building a quote to rebuild all damaged parts found that it would be less expensive to put a reman axle in the machine.

-Took pictures noted all findings.

REPAIR:

-Removed axle and disassembled and inspected components.

ADDITIONAL DESCRIPTION:

Failed Part #: AT495576

Failed/Function Area: 0201 Drive Axle and Housing Support

Failed Type Code: 30

DTAC Case/Solution #: N/A

Diagnostic Hours: Segment 2. Segments 2 and 10-15 together

	LABOR	Warr/Int
10401099 10501054 740T1D54	SEGMENT TOTAL==>	Warr/Int

SEGMENT# 3 C TU901 NA 06/04/26 07/02/26
WASH

4.00 HRS

CONDITION:

LINE USED FOR:

-CLEANING SHOP

-CLEANING FLOOR

-CLEANING EXCESS RAIN FROM ROOF

CONTINUED ON PAGE 05

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Z051422 ADTS	5970	1DW460PAVRFB08755	10/25/25	1000
UNIT#AD-4615 460P		RG6135U050658	07/25/26	8000 PR

- COVERING ENGINE FROM ROOF LEAKAGE
- REMOVED SHOP TRASH
- REMOVED ABSORBENT PADS
- RECYCLED COOLANT AND CLEANED UP SPILLAGE
- MEETING WITH DUSTIN
- CLEANED FLOOR
- TOOK OUT TRASH
- TOOK OUT FLOOR RAGS
- CLEANED OIL SPILLAGE

REPAIR:

Clear Debris
Windshields - Exterior
Rinse Exterior
Degreaser as needed
Quick wash
Rinse

	LABOR	Warr/Int
10401099 10501054 74301454	SEGMENT TOTAL==>	Warr/Int

SEGMENT# 4 C NDG01 RDO-030-010 06/04/26 07/09/26
FLUSH COOLANT SYSTEM

7.50 HRS

CONDITION:

- Drain old coolant from system.
- Flush out and refill.

REPAIR:

- DRAINED CONTAMINATED COOLANT FROM THE SYSTEM
- MEASURED OUT COOLANT RESTORE CLEANER AND FILLED WITH TAP WATER
- RAN AT FULL OPERATING TEMPERATURE WITH THE THERMOSATS REMOVED FOR 1 HOUR

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Z051422 ADTS	5970	1DW460PAVRFB08755	10/25/25	1000
UNIT#AD-4615 460P		RG6135U050658	07/25/26	8000 PR

-DRAINED AND REFILLED WITH WATER
-RAN SEVERAL MORE FLUSHED WITH WATER UNTIL SYSTEM SHOWED
VERY LITTLE TO NO SIGNS OF FUTEHR CONTAMINATION
-DRAINED SYSTEM AND REFILLED WITH COOLANT
-RAN UNIT TO TEMP WITH HEATER ON MAX
-VERIFIED NO FURTHER OIL INTRUSION INTO COOLING SYSTEM

ADDITIONAL DESCRIPTION:

Failed Part #: DZ120878
Failed/Function Area: 5111
Failed Type Code: 14
DTAC Case / Solution #: 216428
Diagnostic Hours: 2 Hours. Segments 1, 4, 5, 6, and 7 go
together.

PMCC2610	COOLANT RESTORE	3	Warranty	Warranty
R526831	GASKET	4	Warranty	Warranty
TY27530	COOL-GARD	97	Warranty	Warranty
			PARTS	Warranty
			LABOR	Warranty
10401099 10501054			SEGMENT TOTAL==>	Warranty

SEGMENT# 5 C NDG01 RDO-030-047 06/04/26 07/09/26
COOLANT RESERVOIR / SURGE TANK, REPLACE AT446749 1.00 HRS

CONDITION:

-REPLACE AT446749
-REPLACE SURGE TANK FOLLOWING THE COOLANT FLUSH

REPAIR:

-REMOVED CONTAMINATED SURGE TANK ONCE FLUSH WAS COMPLETED
-INSTALLED NEW TANK AND REPLACED CLAMPS
-ONCE REFILLED, PRESSURISED AND VISUALLY INSPECTED FOR
LEAKS

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STK#/FLEET#	HRS	PIN/EIN	WARRANTY DATE	HRS
Z051422 ADTS	5970	1DW460PAVRFB08755	10/25/25	1000
UNIT#AD-4615 460P		RG6135U050658	07/25/26	8000 PR

-VERIFIED LEVEL SENSOR WORKS
-NO LEAKS FOUND

ADDITIONAL DESCRIPTION:

Failed Part #: DZ120878
Failed/Function Area: 5111
Failed Type Code: 14
DTAC Case / Solution #: 216428
Diagnostic Hours: 2 Hours. Segments 1, 4, 5, 6, and 7 go
together.

AT446749	TANK	1	Warranty	Warranty
RE56097	CLAMP	1	Warranty	Warranty
TY26573	COOL-GARD GAL	1	Warranty	Warranty
T50L0C2	15.5" ZIP TIE	1	Warranty	Warranty
			PARTS	Warranty
			LABOR	Warranty
10401099 10501054		SEGMENT TOTAL==>		Warranty

SEGMENT# 6 C NDG01 00402A080 06/04/26 07/09/26
ROCKER ARM AND SHAFT ASSEMBLY, R&I (IT4) 12.40 HRS

CONDITION:

-REMOVE ROCKER ARM SHAFTS FOR REPLACEMENT OF DZ120878
-SET OVERHEAD VALVE ADJUSTMENTS

REPAIR:

-LOTO UNIT
-PERFORMED ALL REPAIRS AS PER CTM119919
-REMOVED THE COOLANT LINES AND HARNESSSES THAT ROUTE OVER
THE ROCKER ARM COVER RISER
-REMOVED THE ROCKER ARM RISER COVERS AND DISCONNECTED THE
INJECTORS
-REMOVED THE RISER AND REMOVED THE ROCKER ARM SHAFTS

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SERVICE INVOICE

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Z051422 ADTS	5970	1DW460PAVRFB08755	10/25/25	1000
UNIT#AD-4615 460P		RG6135U050658	07/25/26	8000 PR

-INSPECTED THE ROCKERSHAFTS AND OVERHEAD, FOUND NO FAULTS
-ONCE HEADBOLTS WERE REPLACED, CLEANED ALL COMPONENTS AND
REINSTALLED TO SPEC WITH NEW HARDWARE
-SET THE VALVE ADJUSTMENTS TO SPEC
-REINSTALLED THE RISER AND CONNECTED THE INJECTOR HARNESS
-REINSALLED ALL COMPONENTS WITH NEW SEALS AND TORQUED ALL
TO SPEC
-VERIFIED ENGINE OIL LEVEL
-RAN UNIT TO VERIFY REPAIRS, NO FAULTS FOUND

ADDITIONAL DESCRIPTION:

Failed Part #: DZ120878
Failed/Function Area: 5111
Failed Type Code: 14
DTAC Case / Solution #: 216428
Diagnostic Hours: 2 Hours. Segments 1, 4, 5, 6, and 7 go
together.

R528578	CAP SCREW	12 N	Warranty	Warranty
R529889	GASKET	1	Warranty	Warranty
R531581	GASKET	1	Warranty	Warranty
			PARTS	Warranty
			LABOR	Warranty
10401099 10501054		SEGMENT TOTAL==>		Warranty

SEGMENT# 7 C NDG01 RDO-030-040 06/04/26 07/09/26
THERMOSTAT, REPLACE RE554015

5.00 HRS

CONDITION:

-NEED TO REMOVE THE THERMOSTATS FOR FLUSH AND REINSTALL
ONCE FLUSH IS COMPLETED

REPAIR:

-DRAINED COOLING SYSTEM FOR DISPOSAL

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Z051422 ADTS	5970	1DW460PAVRFB08755	10/25/25	1000
UNIT#AD-4615 460P		RG6135U050658	07/25/26	8000 PR

-REMOVED EGR COOLER EXHAUST ELBOW AND COOLANT LINE
-REMOVED CHARGE AIR COOLER BRACKET
-REMOVED THERMOSTAT HOUSING AND CLEANED OFF OLD GASKET
-REMOVED THERMOSTAT SEALS AND INSTALLED NEW SEALS
-INSTALLED GASKET AND REASSEMBLED HOUSING WITHOUT
THERMOSTATS INTO UNIT
-ASSEMBLED UNIT AND PERFORMED COOLANT FLUSH
-ONCE FLUSH WAS COMPLETED, DISSASSEMBLED AGAIN AND
INSTALLED NEW THERMOSTATS AND GASKETS
-REPLACED ALL O-RINGS AS WELL
-REFILLED COOLING SYSTEM AND PRESSURISED TO CHECK FOR LEAKS
-NO LEAKS FOUND
-CHECKED COOLANT CONCENTRATION AND ADJUSTED UNTIL COOLANT
WAS WITHIN SPEC

ADDITIONAL DESCRIPTION:

Failed Part #: DZ120878
Failed/Function Area: 5111
Failed Type Code: 14
DTAC Case / Solution #: 216428
Diagnostic Hours: 2 Hours. Segments 1, 4, 5, 6, and 7 go
together.

DZ127964	SEAL	3 N	Warr/Int	Warr/Int
KK22302	Fitting	1 N	Warr/Int	Warr/Int
RE554015	THERMOSTAT	3	Warr/Int	Warr/Int
R528512	SEAL	2	Warr/Int	Warr/Int
R530142	O-RING	4	Warr/Int	Warr/Int
R531285	Gasket	1 S	Warr/Int	Warr/Int
R531530	GASKET	2	Warr/Int	Warr/Int
R532305	O-RING	1	Warr/Int	Warr/Int
R536559	GASKET	1	Warr/Int	Warr/Int

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UNIT#AD-4615 460P		RG6135U050658	07/25/26	8000 PR
R542509	CAP SCREW	6	Warr/Int	Warr/Int
R63185	O-RING	4	Warr/Int	Warr/Int
TY26573	COOL-GARD GAL	2	Warr/Int	Warr/Int
			PARTS	Warr/Int
			LABOR	Warr/Int
10401099 10501054 740T1D54			SEGMENT TOTAL==>	Warr/Int

SEGMENT# 8 C NDG01 DIAG 06/04/26 07/10/26 1.87 HRS

CONDITION:

-NEED TO DIAGNOSE CODE THAT CAME UP DURING THE COOLANT
 FLUSH

-ECU 5125.04

DIAGNOSTICS:

-UNIT PRESENTED AN INTERMITTENT CODE OF 5125.04 AFTER
 COOLANT REPAIR
 -CODE IS SET WHEN THE ECU HAS DETECTED A SUPPLY VOLTAGE
 BELOW SPECIFICATION ON THE ECU 5V CIRCUIT
 -REFERENCED CTM119919 FOR LEVEL 32 ECU DIAGNOSTICS
 -CODE HAD OVER 10 COUNTS STORED AND WAS RECENTLY ACTIVE BUT
 DEEMED INTERMITTENT
 -VERIFIED THE SENSORS ON THIS CIRCUIT AND MANUALLY
 UNPLUGGED THEM ONE BY ONE TO SEE IF ONE WAS SHORTED AND
 TAKING DOWN THE REFERENCE VOLTAGE
 -UNPLUGGED THE MANIFOLD AIR PRESSURE SENSOR B1504 AND THE
 EGR FLOW SENSOR B5103 BEFORE THE CODE WENT INACTIVE
 -TESTED THE HARNESS AGAIN AND FOUND NO DISRUPTION TO THE
 REFERENCE VOLTAGE

REPAIR:

-PERFORMED A HARNESS WIGGLE TEST AND NARROWED IT DOWN TO

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Z051422 ADTS	5970	1DW460PAVRFB08755	10/25/25	1000
UNIT#AD-4615 460P		RG6135U050658	07/25/26	8000 PR

THE UNDERSIDE OF THE EGR MIXING VALVE
-INSPECTED THE HARNESS AND FOUND WIRE 5624 RUBBED THROUGH
AND SHORTED TO GROUND
-REMOVED THE LOOM AND REPAIRED THE DAMAGED WIRE
-NOTED DAMAGED LOOM OF THE EGR FLOW SENSOR SO REMOVED AND
INSPECTED WIRES
-FOUND NO DAMAGE TO WIRES, TAPED UP HARNESS AND REROUTED TO
PREVENT FURTHER ISSUES
-CODE WENT INACTIVE, CLEARED AND TEST DROVE FOR AN EXTENDED
TIME TO VERIFY REPAIRS

ADDITIONAL DESCRIPTION:

Failed Part #: AT535586
Failed/Function Area: 1674 Main Engine Harness
Failed Type Code: 11
DTAC Case / Solution #:
Diagnostic Hours: 1.25
PART LOCATION ON RACK:
TY5021

TY5021	ELECTRICAL TAPE	1	Warranty	Warranty
			PARTS	Warranty
			LABOR	Warranty
10401099 10501054		SEGMENT TOTAL==>		Warranty

SEGMENT#10 C LKJ01 CREATE 06/04/26 07/10/26 40.00 HRS
FRONT AXLE R&R

DIAGNOSTICS:

-Axle had lots of wear metal in the axle and metal through
out the axle system.
-Axle needs to be removed and replaced.

REPAIR:

-Parked machine on flat surface and placed on jack stands.

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Z051422 ADTS	5970	1DW460PAVRFB08755	10/25/25	1000
UNIT#AD-4615 460P		RG6135U050658	07/25/26	8000 PR

- Removed tires.
- Drained oil.
- Removed fenders.
- Removed front drag link.
- Removed strut mounting brackets.
- Removed drive line to axle.
- Removed harness and hoses.
- Removed axle.
- Transferred parts to new axle.
- Installed axle.
- Installed harness and hoses.
- Installed drive line.
- Installed strut brackets.
- Installed drag link.
- Installed fenders.
- Installed tires.

ADDITIONAL DESCRIPTION:

Failed Part #: AT495576
 Failed/Function Area: 0201 Drive Axle and Housing Support
 Failed Type Code: 30
 DTAC Case/Solution #: N/A

Diagnostic Hours: Segment 2. Segments 2 and 10-15 together

AT454362	OIL COOLER	1 N	Warr/Int	Warr/Int
AT509913	Hydraulic Pump	1 N	Warr/Int	Warr/Int
AT511386	FLOW CONTROL HY	1 N	Warr/Int	Warr/Int
	Flow Control Hyd. Valve			
CRPG203746	Front Axle Rema	1-	Warr/Int	Warr/Int
FRT	SHIP/HANDLING	1	Warr/Int	Warr/Int
PG203746	Front Axle Rema	1 N	Warr/Int	Warr/Int
	Front Axle Reman			

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CRPG203746		Front Axle Rema	Warr/Int	Warr/Int
TY22028		HY-GARD TM	84 Warr/Int	Warr/Int
		Trans Hyd Fluid, ISO 57		
TY27718		HYDRA XR BULK	24 Warr/Int	Warr/Int
			PARTS	Warr/Int
			LABOR	Warr/Int
10401099 10501054 740T1D54			SEGMENT TOTAL==>	Warr/Int

SEGMENT#11 C LKJ01 RDO-080-406 06/04/26 07/22/26

WASH EQUIPMENT 3.50 HRS

CONDITION:

-Wash machine before axle removal to avoid contamination.

REPAIR:

-Used fire hose and washed off the axle.

-Used pressure washer to wash of the oil and dirt.

ADDITIONAL DESCRIPTION:

Failed Part #: AT495576

Failed/Function Area: 0201 Drive Axle and Housing Support

Failed Type Code: 30

DTAC Case/Solution #: N/A

Diagnostic Hours: Segment 2. Segments 2 and 10-15 together

	LABOR	Warranty
10401099 10501054	SEGMENT TOTAL==>	Warranty

SEGMENT#12 C LKJ01 10-060-091 06/04/26 07/27/26

AXLE OIL COOLER, REMOVE AND REPLACE 4.00 HRS

CONDITION:

-When inspecting axle found it had a lot of fine metal
 throughout it sending it through the oil cooler.

-Oil cooler needs to be removed and replaced.

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UNIT#AD-4615 460P		RG6135U050658	07/25/26	8000 PR

REPAIR:

- Removed top two brackets on the oil cooler.
- Removed bottom two brackets for oil cooler.
- Removed bolts holding on condenser.
- Removed condenser and ratchet strapped condenser out of the way.
- Removed both oil cooler hoses and capped them.
- Removed cooler and installed fittings onto cooler.
- Installed cooler into machine and bolted both top and bottom bracket.
- Installed hoses onto the cooler.
- Installed condenser back onto the cooling package.
- Ran machine and checked for leaks.

ADDITIONAL DESCRIPTION:

Failed Part #: AT495576
Failed/Function Area: 0201 Drive Axle and Housing Support
Failed Type Code: 30
DTAC Case/Solution #: N/A
Diagnostic Hours: Segment 2. Segments 2 and 10-15 together

	LABOR	Warranty
10401099 10501054	SEGMENT TOTAL==>	Warranty

SEGMENT#13 C LKJ01 RDO-110-126 06/04/26 07/27/26
FRONT AXLE MOTOR PUMP, REPLACE AT509913 4.00 HRS

CONDITION:

- Axle has failed internally and sent metal through the whole system pump needs to be replaced.

DIAGNOSTICS:

- Pump had scoring from metal being sent through it remove and replace axle pump.

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SERVICE INVOICE

STK#/FLEET#	HRS	PIN/EIN	WARRANTY DATE	HRS
Z051422 ADTS	5970	1DW460PAVRFB08755	10/25/25	1000
UNIT#AD-4615 460P		RG6135U050658	07/25/26	8000 PR

REPAIR:

- Secured the machine and locked out all required power sources prior to beginning work.
- Disconnected the hydraulic lines from the front axle motor pump.
- Removed the front axle motor pump.
- Inspected related hoses, lines, fittings, and mating interfaces; found acceptable for continued use.
- Installed the replacement front axle motor pump and verified proper fitment.
- Installed new sealing components at connection points.
- Reconnected and secured all hydraulic lines.
- Verified proper fluid level after the repair.
- Verified no leaks present and confirmed proper operation.

ADDITIONAL DESCRIPTION:

Failed Part #: AT495576
Failed/Function Area: 0201 Drive Axle and Housing Support
Failed Type Code: 30
DTAC Case/Solution #: N/A
Diagnostic Hours: Segment 2. Segments 2 and 10-15 together
R114105 SCREW 4

	Warranty	Warranty
	PARTS	Warranty
	LABOR	Warranty
10401099 10501054	SEGMENT TOTAL==>	Warranty

SEGMENT#14 C LKJ01 RDO-070-001 06/04/26 07/28/26
AXLE COOLING FLOW CONTROL VALVE, REPLACE AT515660

2.50 HRS

CONDITION:

CONTINUED ON PAGE 16

Thank you for your business



RDO Equipment Co.
2960 34th Street S
Moorhead, MN 56560
701-526-2200
Fax: 701-526-2201

For Billing Inquiries or to
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MyDealer website, please contact
RDOAR@rdoequipment.com

Ship to: N/A

Invoice to: ASN CONSTRUCTORS
4816 AMBER VALLEY PARKWAY, STE 100
FARGO ND 58104

Branch
MOORHEAD, MN

Date 08/31/26 Time 19:17:19 (B) Page 16

Account No. 7171051 Phone No. 7019971603 Invoice No. W4059454

Ship Via W99/EAG Purchase Order HAULING

Tax Exemption Number Federal ID Number

Salesperson
DUD / DUD

SERVICE INVOICE

STK#/FLEET#	HRS	PIN/EIN	WARRANTY DATE	HRS
Z051422 ADTS	5970	1DW460PAVRFB08755	10/25/25	1000
UNIT#AD-4615 460P		RG6135U050658	07/25/26	8000 PR

-Axle control valve has been contaminated with metal and needs to be replaced.

REPAIR:

- Replace cooling manifold due to metal contamination.
- Removed lines from manifold.
- Transferred fittings and sensors to new manifold from old manifold.
- Installed new manifold.
- Cleaned area.

ADDITIONAL DESCRIPTION:

Failed Part #: AT495576
Failed/Function Area: 0201 Drive Axle and Housing Support
Failed Type Code: 30
DTAC Case/Solution #: N/A
Diagnostic Hours: Segment 2. Segments 2 and 10-15 together

	LABOR	Warranty
10401099 10501054	SEGMENT TOTAL==>	Warranty

SEGMENT#15 C LKJ01 NA	06/04/26 07/28/26	
CLEAR AXLE HOSES		8.25 HRS

CONDITION:

-Axle hoses are contaminated with metal and need to be cleaned out.

ADDITIONAL DESCRIPTION:

Failed Part #: AT495576
Failed/Function Area: 0201 Drive Axle and Housing Support
Failed Type Code: 30
DTAC Case/Solution #: N/A
Diagnostic Hours: Segment 2. Segments 2 and 10-15 together

	LABOR	Warranty
CONTINUED ON PAGE 17		

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SERVICE INVOICE

STK#/FLEET#	HRS	PIN/EIN	WARRANTY DATE	HRS
Z051422 ADTS	5970	1DW460PAVRFB08755	10/25/25	1000
UNIT#AD-4615 460P		RG6135U050658	07/25/26	8000 PR
10401099 10501054		SEGMENT TOTAL==>	Warranty	

SEGMENT#16 C LKJ01 NA 06/04/26 07/28/26
HAUL MACHINE FROM/TO CUSTOMER LOCATION TO/FROM RDO
CONDITION:
-Haul Machine from RDO to customer location.
10401099 10501054 74001454

***** WORK ORDER TOTALS *****		
	INTERNAL	CUSTOMER
PARTS	Warr/Int	
LABOR	Warr/Int	
HAUL CHARGE		1157.39
SUB TOTAL==>	Warr/Int	1157.39
CLAY CO County		5.78
MN STATE TAX		79.57
MOORHEAD City		5.79
INTERNAL TOTAL	Warr/Int	
TOTAL DUE RDO		1248.53

+-----+
| Payments are due on your RDO account 30 days from the invoice date |
+-----+

PLEASE REMIT TO: RDO EQUIPMENT CO.
P.O. BOX 7160
FARGO, ND 58106-7160

CONTINUED ON PAGE 18

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MOORHEAD, MN

Date	Time	Page
08/31/26	19:17:19 (B)	18

Account No.	Phone No.	Invoice No.
7171051	7019971603	W4059454

Ship Via	Purchase Order
W99/EAG	HAULING

Tax Exemption Number	Federal ID Number

Salesperson
DUD / DUD

SERVICE INVOICE

STK#/FLEET#	HRS	PIN/EIN	WARRANTY DATE	HRS
Z051422 ADTS	5970	1DW460PAVRFB08755	10/25/25	1000
UNIT#AD-4615 460P		RG6135U050658	07/25/26	8000 PR

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Date 09/14/26 Time 21:09:50 (B) Page 01

Account No. 7171051 Phone No. 7019971603 Invoice No. W4219054

Ship Via SAO/EAG Purchase Order WO21335

Tax Exemption Number Federal ID Number

Salesperson
C20 / SAO

SERVICE INVOICE

STK#/FLEET#	HRS	PIN/EIN	WARRANTY DATE	HRS
Z051422 ADTS	6354	1DW460PAVRFB08755	10/25/25	1000
UNIT#AD-4615 460P		RG6135U050658	07/25/26	8000 PR

** Buy parts online and view your invoices at RDOequipment.com/account.

SEGMENT# 1 C SFE01 RDO-070-545 08/29/26 08/29/26
SERVICE BRAKE ACCUMULATOR PRESSURE SENSOR, REPLACE AT435544 1.00 HRS

CONDITION:

-Machine has steering code go off

DIAGNOSTICS:

-I got in machine and verified that machine had steering codes go off
-I lifted cab and tested pressure sensor for steering and found sensor was Brocken and also was not reading properly
-Replaced with new sensor and verified codes went away
-Codes did not come back
-I tightened down the cab and drove around for a few to make sure machine was good to give back to customer
-No issues were present at that point and gave machine back

REPAIR:

-Removed and replaced new Pressure sensor

ADDITIONAL DESCRIPTION:

Failed Part #:

AT435544

Failed/Function Area: 2162 Hydraulic Selective Control & Load Holding Valves

Failed Type Code: 11

DTAC Case / Solution #: NA

Diagnostic Hours: NA

AT435544

SENSOR	1	Warranty	Warranty
		PARTS	Warranty
		LABOR	Warranty

CONTINUED ON PAGE 02

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Date 09/14/26 Time 21:09:50 (B) Page 02

Account No. 7171051 Phone No. 7019971603 Invoice No. W4219054

Ship Via SAO/EAG Purchase Order WO21335

Tax Exemption Number Federal ID Number

Salesperson
C20 / SAO

SERVICE INVOICE

STK#/FLEET#	HRS	PIN/EIN	WARRANTY DATE	HRS
Z051422 ADTS	6354	1DW460PAVRFB08755	10/25/25	1000
UNIT#AD-4615 460P		RG6135U050658	07/25/26	8000 PR
10401099 10501054		SEGMENT TOTAL==>	Warranty	

SEGMENT# 2 C SFE01 STT-20 08/29/26 08/29/26 .89 HRS
TRAVEL, ROUND TRIP

CONDITION:

-Drive to machine location for repairs

REPAIR:

-Drove to machine location
-Drove back to the shop

	LABOR	Warranty
10401099 10501054	SEGMENT TOTAL==>	Warranty

***** WORK ORDER TOTALS *****

INTERNAL CUSTOMER

PARTS Warranty

LABOR Warranty

INTERNAL TOTAL Warranty

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