

Serial Number: TWX00872 Product Family: LARGE WHEEL LOADER

Model: 988K SMU / Hours: Year: 2016

SERVICE HISTORY (168 Records)

Invoice Date	Invoice Type	SMU / Hours	Description	Notes
Jul 25, 2025	Service	16,534	Replace Magnetic Switch	Customer complaint: Loss of power. ** Cause of failure: Main power relay. *** Repair process comments: 2624 arrived onsite and verified concern. Machine cranks but does not start. Cab displays are in op. verified battery voltage. Checked fuses and found lower fuse panel did not Have power. Took cab apart and tested voltage at mpr. Found command and inlet voltage but relay does not Activate. Ordered part and returned. replaced mpr and Verified machine starts and runs. Reassembled cab and returned machine to customer
Jul 25, 2025	Service	16,534	Travel To/from Machine	Poc: darrel 818 335 9128
Jul 25, 2025	Service	16,534	Perform Ta1 Inspection	
Jul 24, 2025	Service	16,534	Travel To/from Machine	Poc: jose 951 441 9830
Jul 24, 2025	Service	16,534	Troubleshoot Tilt Cyl	Customer complaint: Bucket drifts when loaded. ** Cause of failure: Cylinder internal leak. *** Resultant damage: Cylinder bypassing. **** Repair process comments: 6/6 1361 verified bucket was drifting with Material in bucket. swapped line reliefs to Verify relief valve was not by passing. bucket Still drifted. cylinder has internal leak as well As oil leaking past the wiper seal. Customer requested a quote for repair.
Jun 26, 2025	Service	16,529	Perform Pm 1	Customer complaint: perform pm1 Completion date: 6/24 @ 16,529 hours *** Technician notes: Noted engine oil is low, coolant also a little low , hydraulic low, notified customer, cleaned Battery, inspected belt, tested brakes and Accumulator, checked fluids, greased machine, Took sample
Jun 26, 2025	Service	16,529	Travel To/from Machine	

Apr 30, 2025	Service	16,105	Replace Drivetrain Oil Lines	Customer complaint: Oil leak underneath l/s of cab. ** Cause of failure: High pressure pump hose worn. *** Resultant damage: Hose leaking transmission fluid. **** Repair process comments: 3889 during other repairs, noticed active leak Underneath the left side of the cab. advised the Customer and ordered a replacement hose. Returned with new hose and replaced. Tested the machine for proper operation and Ensured the leak was repaired. topped of the Transmission oil and set the machine back into Service. Repair hydraulic leak.
Apr 30, 2025	Service	16,105	Troubleshoot Diesel Exhaust Fluid	Customer complaint: Active aftertreatment codes related to low def Pressure. ** Cause of failure: Possible restriction in def delivery system and/or Faulty def pump. *** Resultant damage: Engines aftertreatment system unable to complete Normal regeneration as needed and the machine is In derate. **** Repair process comments: 3889 verified customers concern. downloaded Product status report. changed the def filter And found some signs of contaminants in the def Tank. performed a def pump pressure test and it Passed with its ability to build proper operating Pressure. ran machine and performed regen. Set the machine back into service. Def codes, recently replaced the def filter Ref;re39805
Apr 30, 2025	Service	16,105	Travel To/from Machine	Loc: 250 east santa ana ave, bloomington
Apr 30, 2025	Service	16,105	Replace Diesel Exhaust Fluid	Customer complaint: Code returned. ** Cause of failure: Debris in the tank. **** Repair process comments: 3889 returned, the code came back. advised the Customer about replacing the in line def header Screens and fittings to eliminate the possible Restricted passageways. replaced the in line Screens/fittings and blew the lines out. Cleared the logged codes and set the machine back Into service. advised customer it was Recommended to drain the def tank, to Thoroughly clean out and replace all def lines Along with the def pump. the customer wanted To wait on the cleaning and would Monitor the machine. Replace def pressure sensor
Apr 23, 2025	Service	16,243	Travel To/from Machine	Santa ana, bloomington

Apr 23, 2025	Service	16,243	Replace Fuel Shutoff Solenoid	Customer complaint: Ard fault codes. ** Cause of failure: Fuel shut off solenoid coil. *** Resultant damage: E1389 fault codes. **** Repair process comments: 4-2-25 3865 downloaded status report. verified Code was not active but had several logged codes. Aftertreatment code (3413-5) Cleaned surrounding area around fuel filters and Aftertreatment system. followed troubleshooting Steps and performed the "solenoid valve test". - "-6" code appeared when key on. Ordered new coil (300-3354). returned and Installed new coil. Cleared codes. ran aftertreatment system Functional test, successful. manual dpf regen Test and test successful. no more codes present. Cleared logged events/codes. notified customer and Returned machine to service. Ard fault codes Recently replaced def filters 2x's
Apr 21, 2025	Service	16,243	Perform Pm 4	Customer complaint: perform pm4 Completion date: 3/31/25 @ 16243 hrs *** Technician notes: changed engine, transmission, And hydraulic filters, changed engine and cabin Air filters, checked and filled fluids to spec Greased machine, took samples, due to machine Being inop, diff and final service incomplete, Customer stated they will call for service once Sample results were obtained. Perform pm4
Apr 21, 2025	Service	16,243	Travel To/from Machine	
Apr 10, 2025	Service	16,047	Troubleshoot Diesel Exhaust Fluid	Customer complaint: Active fault for low def pressure. ** Cause of failure: Unknown / possible filter. *** Resultant damage: Active fault for low def pressure, will not Regenerate. **** Repair process comments: 1352 connected to et and checked faults. cleared Faults and ran the def system. No problems found. updated the software and Replaced the def filter. machine is operating Properly Afc e931 & e1389 mach down
Apr 10, 2025	Service	16,047	Travel To/from Machine	Bloomington
Dec 31, 2024	Service	15,960	Perform Pm 1	Customer complaint: Perform 250 hour pm Service date: 12.12.24 ***** Repair process comments: As requested per customer, engine oil was changed Normally done every 500 hrs. All oil and coolant samples were taken. Changed engine, oil, fuel, and air filters Refilled engine oil to level as needed. Ran and check machine for leaks at filters No leaks seen. Greased all fittings. ***** Perform 250 hour pm Performed 500 hr requirements
Dec 31, 2024	Service	15,960	Travel To/from Machine	Rialto

Dec 17, 2024	Service	15,831	Travel To/from Machine	250 e santa ana ave bloomington 92316
Dec 17, 2024	Service	15,831	Repair Wiring Harness	Customer complaint: Def soot level high. ** Cause of failure: After air cooler temp sensor wire. *** Resultant damage: Machine not cooling off after shutdown. operators Shutting machine down pre maturely. *** Repair process comments: 1841 traveled to machine. connected et and Downloaded a psr. found active code for Aftercooler outlet temp sensor voltage above Normal. Also found multiple high temperature forced shut Downs. performed manual regen to get machine out Of derate. performed aftertreatment system Function test. test passed. After shutting machine down the machine ran for Almost 30 minutes. Found broken wire on aftercooler temp sensor. Repaired wires and returned machine to customer. Def high level code
Nov 27, 2024	Service	15,718	Replace Diesel Exhaust Fluid Pump	Customer complaint: Coolant leak. ** Cause of failure: Hose cut near hose clamp. *** Resultant damage: Coolant leak. *** Repair process comments: 10/2/24 3294 coolant lines on def injector were Leaking because the hoses were worn trough near The hose clamps Replace coolant hoses and install new clamps. Repair for seg 01 if needed
Nov 27, 2024	Service	15,718	Travel To/from Machine	330 e santa ana ave bloomington

Nov 27, 2024	Service	15,718	Troubleshoot Fuel System	Customer complaint: Machine loses power and stalls. ** Cause of failure: Fuel tank contamination. *** Resultant damage: Low power / stalling. **** Repair process comments: 10/1/24 3294 connected et and download psr. No codes related to fuel system. confirm Complaint and operate machine under normal Circumstances by loading rock. - machine started Fine and ran well for about 5 mins. machine Began to lose power and eventually stalled. Fuel pressure was slowing falling off under load. Fuel pressure started about 80 psi, but then Gradually went down to 0 letting off the throttle While the machine was dying caused fuel pressure To return to 50-65 psi. remove fuel tank Breathers and cleaned (ok). remove fuel filters And inspected. ordered new filters. new filters Did not fix the problem 10/2/24 3294 replace fuel water separator bowl. Did not fix the problem. perform air in fuel Test. no air is present in the fuel, there must Be a restriction. remove inlet fuel hose on Fuel/water separator and blew back towards the Tank with air pressure. Findings: fuel lines / tank are contaminated with Debris- blowing out the inlet hose and tank pick Up solved the problem. Fuel pressure was now at 85 psi at low idle and 105 psi at high idle - double stalling the machine repeatedly (90% load Factor), fuel pressure never fell below 100 psi - operator ran machine for 30 min's with no Issues Lifted bucket and bucket stays up. customer Believes it a fuel issue but more than likely a Hydraulic issue
Sep 25, 2024	Service	15,672	Perform Pm 2	Customer complaint: Perform 500 hour Service date: 09.11.24 ***** Repair process comments: Performed pm2 Checked all oil and coolant levels Levels were all at the top full mark Took all oil and coolant samples Changed engine oil. Changed engine oil,transmission,fuel and all air Filters. Refilled fluids to level as needed. Greased all fittings. ***** Perform 500hr service
Sep 25, 2024	Service	15,672	Travel To/from Machine	Loc bloomington santa ana and bloomington
Sep 16, 2024	Service	15,546	Tighten Coolant Hose/lines	Customer complaint: Coolant fitting. ** Cause of failure: Coolant leak. *** Repair process comments: Removed leaking coolant fitting. replaced with New fitting and seals. ran machine. no coolant Leaks. Ref:re36426 6/27/24 @15386 hrs Recycled agg Part ordered on the ref job
Sep 16, 2024	Service	15,546	Troubleshoot Diesel Particulate Filter	Customer complaint: Def over heat codes. ** Repair process comments: 2467 downloaded psr and talked to operator. Operator states over heat code for def tank is Locking out regen. Found exhaust leak around dpf filter clamp. Informed customer and ordered parts. Several aftertreatment codes came back Just repaired ref:re36426

Sep 16, 2024	Service	15,546	Replace Diesel Particulate Filter	Customer complaint: Replace clamps. ** Cause of failure: Exhaust leak. *** Repair process comments: Removed hood panel. removed doc and dpf filter. Replaced clamps that connect dpf and doc. Reinstalled dpf and doc. reinstalled hood panel. Replace dpf & doc clamps
Sep 16, 2024	Service	15,546	Tighten Coolant Hose/lines	Customer complaint: Coolant fitting. ** Cause of failure: Coolant leak. *** Repair process comments: Removed leaking coolant fitting. replaced with New fitting and seals. ran machine. no coolant Leaks. Ref:re36426 6/27/24 @15386 hrs Recycled agg Part ordered on the ref job
Sep 16, 2024	Service	15,546	Travel To/from Machine	Loc: santa ana bloomington
Jul 31, 2024	Service	15,386	Clean Diesel Exhaust Fluid	Customer complaint: Replaced filters. ** Cause of failure: Plugged filter and contaminated def tank. *** Resultant damage: E931(2) code alarm is on. **** Repair process comments: Removed manifold and def tank. flushed def tank And cleaned dirt debris.removed def pump and Replaced filter. installed def pump, tank and Manifold. Put fresh def fluid. cleared codes. ran and tested Machine. No codes came back put machine back in service. Rep seg
Jul 31, 2024	Service	15,386	Travel To/from Machine	Santa ana ave, bloomington
Jul 31, 2024	Service	15,386	Troubleshoot Diesel Particulate Filter	Customer complaint: Active fault codes e1389 & e1389.e931(2). ** Repair process comments: 3344 checked active and logged codes. found E931(2) was logged 26 times in an hour. Ordered filters, drained def tank. Aftertreatment codes e1389 & 5246-16
Jun 25, 2024	Service	15,374	Perform Pm 1	Customer complaint: Perform 250 hour pm Service date: 06.24.24 ***** Repair process comments: Checked all fluid levels, levels were at top full Mark. Took an engine oil sample. ***** Perform 250 hour pm Due at 15370
Jun 25, 2024	Service	15,374	Travel To/from Machine	330 e santa ana ave, bloomington

May 28, 2024	Service	15,123	Perform Pm 3	Customer complaint: Perform 1000 hour pm Service date: 05.14.24 ***** Repair process comments: Perform before and after product report. Perform ta1 inspection. Took all samples required by sis. Drained and refilled angina and transmission. Replaced engine oil filter, fuel filters, Fuel separator, transmission filter, hydraulic fan Filter, hydraulic implements filter, engine air Filters and cab filters. Replaced transmission drain o-ring. Checked all fluid levels and greased all fittings. Topped of hydraulic oil with 3 gallons. Tested machine brakes and all functions. ***** Perform 1000 hour pm Due at 15094
May 28, 2024	Service	15,123	Travel To/from Machine	330 e santa ana ave, bloomington, california 92316
Apr 18, 2024	Service	14,844	Perform Pm 1	Customer complaint: Perform 250 Service date: 04.05.24 ***** Repair process comments: Checked all fluid levels, levels were at top full Mark. Took an engine oil sample. Perform 250 hour pm Due at 14810 ***cv3***
Apr 18, 2024	Service	14,844	Travel To/from Machine	Pl not working please reach out to customer to get Loc
Feb 29, 2024	Service	4,560	Perform Pm 2	Customer complaint: Perform 500 hour pm Service date: 02/23/24 ***** Repair process comments: Performed pm2 Checked all fluid levels - levels all to top full Mark. Took oil and coolant samples. Changed engine oil,refilled with customer Provided oil. Changed all oil , fuel and air filters including Cab a/c filters. Ran machine and checked for leaks at new filters No leaks. Greased all fittings Notified customer service was complete. ***** Perform 500 hour pm
Feb 29, 2024	Service	4,560	Travel To/from Machine	Loc: 330 e santa ana ave, bloomington
Feb 29, 2024	Service	14,072	Pressure Test Cgi Cooler	Customer complaint: Pressure test nrs cooler Repair process comments: Pressure tested nrs cooler, dipped in water for Air, and found air pockets presented Pressure test nrs cooler
Feb 29, 2024	Service	14,072	Travel To/from Machine	250 east santa ana ave, bloomington ca 92316

Feb 29, 2024	Service	14,072	Remove & Install Cgi Cooler	Customer complaint: Coolant in aftertreatment. ** Cause of failure: Nrs leaking coolant internally. *** Resultant damage: Coolant in aftertreatment system. *** Repair process comments: 11/16/23 arrived at machine. checked for coolant Leaks. found coolant leak on hose for nrs cooler And leak for thermostat heater valve. Removed bellows for nrs to check for coolant leak Inside nrs. no obvious sign of any coolant leak On the inlet side of nrs. drained coolant and Removed nrs cooler to have pressure checked. 11/17/23 nrs was pressure checked and failed, air Bubbles coming out of nrs when fully submerged. Ordered replacement nrs. returned to machine with Replacement nrs cooler and installed. Troubleshoot coolant leak that is going into doc.
Feb 29, 2024	Service	14,072	Remove & Install Diesel Particulate Filter	Customer complaint: R&i dpf. ** Cause of failure: 5000 hour dpf service. *** Repair process comments: 11/15/23 arrived at machine. waited 2 hours for Lube tech to finish servicing machine. removed Hood panels. disconnected sensors from dpf. Removed doc from machine. removed dpf filter. Covered open ports. 11/16/23 delivered dpf for cleaning. Advised there are signs of coolant going Through the aftertreatment system. 11/17/23 dpf shop recommends dpf be replaced, Customer wants to reuse dpf cleaned. Returned to machine. Reinstalled dpf filter and doc with new clamps. Reinstalled hood. 11/20/23 returned. performed ash service reset And regen. regen was successful. checked for Leaks. no visible leaks. reinstalled side panels. Left machine. Remove and install dpf Recommended replacement & customer opted For cleaning
Feb 29, 2024	Service	14,072	Replace Air Conditioner	Customer complaint: Active code for air condition vent temp sensor. ** Cause of failure: 256 6454 sensor shorted out. *** Repair process comments: 11/20/23. arrived at machine. downloaded psr. Removed air ducts on right side of cab. lowered Ac fans to get access to sensor. replaced sensor. Reinstalled ac fans and cab air ducts. code no Longer active. download post psr. Replace air condition sensor. Part# 2566454
Feb 29, 2024	Service	4,560	Travel To/from Machine	Loc: 330 e santa ana ave, bloomington
Feb 29, 2024	Service	4,560	Perform Pm 2	Customer complaint: Perform 500 hour pm Service date: 02/23/24 ***** Repair process comments: Performed pm2 Checked all fluid levels - levels all to top full Mark. Took oil and coolant samples. Changed engine oil,refilled with customer Provided oil. Changed all oil , fuel and air filters including Cab a/c filters. Ran machine and checked for leaks at new filters No leaks. Greased all fittings Notified customer service was complete. ***** Perform 500 hour pm

Feb 26, 2024	Service	4,560	Travel To/from Machine	Loc: 330 e santa ana ave, bloomington
Feb 26, 2024	Service	4,560	Perform Pm 2	Customer complaint: Perform 500 hour pm Service date: 02/23/24 ***** Repair process comments: Performed pm2 Checked all fluid levels - levels all to top full Mark. Took oil and coolant samples. Changed engine oil,refilled with customer Provided oil. Changed all oil , fuel and air filters including Cab a/c filters. Ran machine and checked for leaks at new filters No leaks. Greased all fittings Notified customer service was complete. ***** Perform 500 hour pm
Feb 01, 2024	Service	14,300	Travel To/from Machine	Bloomington
Feb 01, 2024	Service	14,300	Perform Pm 1	Customer complaint: Perform 250 hour pm Service date: 1/8/24 ***** Repair process comments: Performed pm1 Customer requested engine oil change on their pm1. Changed engine oil. Refilled with customer supplied engine oil. Changed oil,fuel and air filter for the engine. Ran and checked for leaks at new filters, No leaks detected. Greased all zerk fittings ***** Perform 250 hour pm **cv3** Due at 14322
Jan 18, 2024	Parts			
Nov 29, 2023	Service	14,072	Travel To/from Machine	Loc: bloomington
Nov 29, 2023	Service	14,072	Perform Pm 4	Customer complaint: Perform 2000 hour pm Service date: 11/14 & 11/15 ***** Repair process comments: Drained and refilled engine oil, transmission Oil and transmission oil. Drained and refilled hydraulic tank. Drained and refilled front and rear differential. Replaced engine oil filter, transmission filter, All hydraulic filters, and fuel filters. Replaced fuel separator, engine air filters and Cab filters. Checked all fluid levels and topped off coolant With 2 gallons. greased all fittings and tested Machine breakes along with all other functions. Please note the customer ran out of 50w and Customer confirmed it was okay to top off with Oil from lube truck. ***** ***cv3*** Perform 2000 hour pm with fluids

Oct 25, 2023	Service	13,600	Perform Pm 2	Customer complaint: Perform 250 hour service Service date:9/6/23 ***** Repair process comments: Took all oil and coolant samples. Changed the engine oil. Refilled using customer supplied engine oil. Changed oil,fuel and air filters. ***** Perform 500hr service
Oct 25, 2023	Service	13,600	Travel To/from Machine	Loc: 250 e santa ana ave, bloomington, ca 92316
Mar 23, 2023	Service	12,431	Travel To/from Machine	250 e santa ana ave rialto
Mar 23, 2023	Service	12,431	Troubleshoot Air Conditioner	Customer complaint: A/c issue. ** Repair process comments: (9592) cleaned debris from a/c system. connected Gauges to system and found pressures below Specs. Recovered 2 lbs (specs 4 lbs). Performed a vacuum test on system, system failed. Isolate compressor and performed vacuum test Successfully. Ac issue **pm service scheduled 2/16**
Mar 23, 2023	Service	12,431	Replace Refrigerant Compressor	Customer complaint: Replace compressor. ** Cause of failure: Compressor(320-1291). *** Resultant damage: Refrigerant loss. *** Repair process comments: Replaced compressor and dryer. charged system to Specs of 4 lbs. activated system, found system Shutting off intermittently. Checked circuit wiring/connectors for visible Damage and continuity. found wire 513 in harness (432-8734) open. Removed and repaired wiring. activated system and Found functioning correctly. reinstalled panels And returned unit to operations. **if needed**
Feb 28, 2023	Service	12,430	Travel To/from .	Additional travel time from coi to riverside
Feb 28, 2023	Service	12,430	Travel To/from .	Additional travel time from coi to riverside
Feb 28, 2023	Service	12,430	Perform Pm 3	Customer complaint: Machine is due for a 1000 hour service. Cause of failure: Resultant damage: Repair process comments: Arrived at customer jobsite. Changed engine and transmission Oils. changed all filters (eng oil, fuels, trans, Hyd). changed engine and cab air filters. took All fluid and oil sos samples. filled all fluids And oils to operating ranges. customer wanted me To use theyre oil to fill machine. started Filling engine and ran out of oil after 6 Gallons. per customer i used my oil to finish Filling engine. used customer oil to fill Transmission but had to use my air supply due to Customer air line having a leak. Performed service per cat Specs. Perform 1000hr srvc **cust supply oils**

Feb 28, 2023	Service	12,430	Travel To/from Machine	250 e santa ana ave, bloomington, ca 92316
Feb 21, 2023	Parts			
Oct 19, 2022	Service	11,178	Perform Pm 1	Customer complaint: Perform 250hr service ***** Repair process comments: Change engine fluid and engine filter. Change engine air filters. Checked and filled all fluid levels to spec. Took samples and greased machine. Followed sis maintenance procedure . ***** Perform 250 hour service Friday 7/1/22
Oct 19, 2022	Service	11,178	Travel To/from Machine	Loc: rialto yard
Oct 19, 2022	Service	11,178	Perform Ta1 Inspection	Complimentary ta 1 \$149.00
Jul 27, 2022	Service	11,173	Replace Diesel Exhaust Fluid Pump	Customer complaint: Aftertreatment code causing engine to derate. ** Cause of failure: Def pump back flow connector old with Check valve. *** Resultant damage: No damage. **** Repair process comments: Arrived at machine. checked machine for active Codes. e930 def pressure high code active. Changed back flow connector on def to updated Part. ran machine for 15 min's. code went away. Cleared logged codes and download product status Report Fault code e1389, machine down Ref w/o re25685
Jul 19, 2022	Service	10,978	Travel To/from Machine	Colton
Jul 19, 2022	Service	10,978	Troubleshoot Aftertreatment System	Customer complaint: Fault code e930-2 & e1389-2, machine down. *** Cause of failure: None. *** Repair process comments: (9592) connected et. found afc e930 present. Downloaded psr. Removed access plate and cleaned debris from def Pump/lines. removed and checked backflow valve And line for a restriction, none found. Reinstalled parts, performed a purge and Verification aftertreatment functional tests Successfully. codes cleared, cleared a logged Codes. downloaded psr, return unit to operations. Fault codes e932 (2) and e1389 (2) ***machine down***
Jul 05, 2022	Parts			
Feb 28, 2022	Service	10,417	Perform Ta1 Inspection	Complimentary ta 1 \$149.00 COMPLIMENTARY TA 1 \$149.00

Feb 28, 2022	Service	10,417	Travel To/from Machine	Loc bloombington yard LOC BLOOMBINGTON YARD
				Customer complaint: Perform 500 hour service. PERFORM 500 HOUR SERVICE. Repair process comments: 2/25/22 traveled to the machine (bloomington yard) 2/25/22 TRAVELED TO THE MACHINE (BLOOMBINGTON YARD) Performed pm service per service hours. PERFORMED PM SERVICE PER SERVICE HOURS. Took oil samples. changed engine fluids. changed TOOK OIL SAMPLES. CHANGED ENGINE FLUIDS. CHANGED Engine, fuel, transmission and hydraulic filters. ENGINE, FUEL, TRANSMISSION AND HYDRAULIC FILTERS. Changed engine and air filters. checked and filled CHANGED ENGINE AND AIR FILTERS. CHECKED AND FILLED All fluid levels to spec. greased the machine. ALL FLUID LEVELS TO SPEC. GREASED THE MACHINE. Followed sis maintenance procedure. FOLLOWED SIS MAINTENANCE PROCEDURE. ***** ***** ANALYZE S-O-S FROM FRONT, FINAL DRIVE TAKE & ANALYZE S-O-S FROM REAR, FUEL FILTER REPLACE SECONDARY, FUEL TANK CL Perform 500 hour service PERFORM 500 HOUR SERVICE Monday 2/21/22
Feb 28, 2022	Service	10,417	Perform Pm 2	
Nov 03, 2021	Service	9,947	Configure Aftertreatment System	Customer complaint: CUSTOMER COMPLAINT: Active e1354 code. ACTIVE E1354 CODE. ** ** Cause of failure: CAUSE OF FAILURE: Operator shut down. OPERATOR SHUT DOWN. *** *** Repair process comments: Traveled to bloomington. downloaded the product Status report. cleared codes with factory STATUS REPORT. CLEARED CODES WITH FACTORY Password. ran regen and functional test. Completed and ran good. COMPLETED AND RAN GOOD. ***** Bloomington BLOOMBINGTON T/s for regen codes e1354 (2) T/S FOR REGEN CODES E1354 (2) Loc: bloomington, ca LOC: BLOOMBINGTON, CA

Oct 29, 2021	Service	10,130	Perform Pm 1	Customer complaint: CUSTOMER COMPLAINT: Perform 250 hour service PERFORM 250 HOUR SERVICE ***** Repair process comments: REPAIR PROCESS COMMENTS: 10/27/21 traveled to the machine (rialto). 10/27/21 TRAVELED TO THE MACHINE (RIALTO). Performed pm service per service hours. PERFORMED PM SERVICE PER SERVICE HOURS. Changed engine oil, filters and air filters. CHANGED ENGINE OIL, FILTERS AND AIR FILTERS. Checked and filled all fluid levels to spec CHECKED AND FILLED ALL FLUID LEVELS TO SPEC (customer provided engine oil). greased the (CUSTOMER PROVIDED ENGINE OIL). GREASED THE Fittings. followed sis maintenance procedure. FITTINGS. FOLLOWED SIS MAINTENANCE PROCEDURE. ***** ***** Perform 250 hour service PERFORM 250 HOUR SERVICE Wednesday 10/27/214 WEDNESDAY 10/27/214 Loc: rialto yard
Oct 29, 2021	Service	10,130	Perform Ta1 Inspection	Complimentary ta 1 \$149.00 COMPLIMENTARY TA 1 \$149.00
Aug 30, 2021	Service	9,864	Perform Pm 2500 Hr	Customer complaint: CUSTOMER COMPLAINT: Perform 2500 hour service. PERFORM 2500 HOUR SERVICE. ***** Repair process comments: REPAIR PROCESS COMMENTS: Removed dpf system from the machine. removed valve Covers. set engine at etc. adjusted valve and COVERS. SET ENFINE AT ETC. ADJUSTED VALVE AND Injectors. turned engine over and adjusted valves. INJECTORS. TURNED ENGINE OVER AND ADJUSTED VALVES. Installed dpf system. found pressure sensor broken INSTALLED DPF SYSTEM. FOUND PRESSURE SENSOR BROKEN On partincular filter. installed pressure sensor. ON PARTINCULAR FILTER. INSTALLED PRESSURE SENSOR. Machine working properly at this time. MACHINE WORKING PROPERLY AT THIS TIME. ***** Perform 2500 hour service Valve lash VALVE LASH
Aug 30, 2021	Service	9,864	Travel To/from Machine	Loc: bloomington, ca LOC: BLOOMINGTON, CA

Aug 30, 2021	Service	9,864	Perform Pm 2	Customer complaint: Perform 500 hour service PERFORM 500 HOUR SERVICE ***** Repair process comments: REPAIR PROCESS COMMENTS: 8/18/21 traveled to the machine (rialto). 8/18/21 TRAVELED TO THE MACHINE (RIALTO). Performed pm service per service hours. PERFORMED PM SERVICE PER SERVICE HOURS. Took oil samples. changed engine oil. changed All oil, fuel and air filters, including a/c cab ALL OIL, FUEL AND AIR FILTERS, INCLUDING A/C CAB Filters. checked and filled all fluid levels to FILTERS. CHECKED AND FILLED ALL FLUID LEVELS TO Spec (customer provided fluids). greased all SPEC (CUSTOMER PROVIDED FLUIDS). GREASED ALL Fittings. assisted with 2500 hour service FITTINGS. ASSISTED WITH 2500 HOUR SERVICE (engine valve lash). Followed sis maintenance procedure. ***** SECONDARY, FUEL TANK CL Perform 500 hour service PERFORM 500 HOUR SERVICE Tuesday 8/18/21 TUESDAY 8/18/21
Aug 30, 2021	Service	9,864	Perform Ta1 Inspection	Complimentary ta 1 \$149.00 COMPLIMENTARY TA 1 \$149.00
Aug 30, 2021	Service	9,864		
Aug 30, 2021	Service	9,864		
Aug 26, 2021	Parts			
Jun 30, 2021	Service	9,542	Perform Pm 1	Performed pm service per service hours. PERFORMED PM SERVICE PER SERVICE HOURS. Changed engine fluids. changed engine filters. CHANGED ENGINE FLUIDS. CHANGED ENGINE FILTERS. Checked and filled all fluid levels to spec. Greased the machine. followed sis maintenance Procedure. ***** Perform 250 hour service Monday 6/14/21 MONDAY 6/14/21
Jun 30, 2021	Service	9,542	Perform Ta1 Inspection	Complimentary ta 1 \$149.00
Jun 30, 2021	Service	9,542	Travel To/from Machine	Traveled to colton yard TRAVELED TO COLTON YARD

Apr 20, 2021

Service

9,126

Trouble Shoot Diesel
Exhaust Fluid

Customer complaint: CUSTOMER COMPLAINT: Fault codes e1364 & e1389, machine down. FAULT CODES E1364 & E1389, MACHINE DOWN. ** ** Cause of failure: CAUSE OF FAILURE: Unknown at this time. *** *** Resultant damage: Light came on for an operator inducement and one For low def concentration. FOR LOW DEF CONCENTRATION. **** Repair process comments: REPAIR PROCESS COMMENTS: Traveled to bloomington. hooked up et and checked TRAVELED TO BLOOMINGTON. HOOKED UP ET AND CHECKED The codes. found 1364 code had only occurred one Time and the 1398 caused the light to come on in TIME AND THE 1398 CAUSED THE LIGHT TO COME ON IN The dash. ran all the emissions tests and they THE DASH. RAN ALL THE EMISSIONS TESTS AND THEY All passed. Released the machine back to the foreman, had them RELEASED THE MACHINE BACK TO THE FOREMAN, HAD THEM Run it. RUN IT.

Bloomington BLOOMINGTON Machine has fault codes e-1364 & e-1389 MACHINE HAS FAULT CODES E-1364 & E-1389 Machine down MACHINE DOWN Loc: 250 santa ana ave. Bloomington, ca BLOOMINGTON, CA

Mar 13, 2021	Service	8,927	Repair Combustion Head	Customer complaint: CUSTOMER COMPLAINT: Emission code. EMISSION CODE. ** ** Cause of failure: CAUSE OF FAILURE: Ard head. ARD HEAD. *** *** Resultant damage: RESULTANT DAMAGE: Emission codes. EMISSION CODES. *** *** Repair process comments: 01/28/21 1403 01/28/21 1403 Traveled to bloomington. connected and downloaded Psrp. performed diagnostic for e1026. nozzle Heater amperage was good at 5.0 amp. Checked fuel pressure to the cem, it was good @275 Psi. performed air system test and it passed. PSI. PERFORMED AIR SYSTEM TEST AND IT PASSED. Went to perform ard ignition test and soot load WENT TO PERFORM ARD IGNITION TEST AND SOOT LOAD Was to high. performed manual regen and WAS TO HIGH. PERFORMED MANUAL REGEN AND Completed. performed an ard ignition test, it COMPLETED. PERFORMED AN ARD IGNITION TEST, IT Failed for low dpf regen temp and high Aftertreatment pressure #2. performed AFTERTREATMENT PRESSURE #2. PERFORMED Troubleshooting, replaced main/pilot solenoid TROUBLESHOOTING, REPLACED MAIN/PILOT SOLENOID Valve. performed nozzle burn for an hour and VALVE. PERFORMED NOZZLE BURN FOR AN HOUR AND Performed ard ignition test, it looked better PERFORMED ARD IGNITION TEST, IT LOOKED BETTER During the test but still failed with the same DURING THE TEST BUT STILL FAILED WITH THE SAME Codes. recommended a new ard head and was CODES. RECOMMENDED A NEW ARD HEAD AND WAS Authorized by andy marks. AUTHORIZED BY ANDY MARKS. Ordered parts and returned. ORDERED PARTS AND RETURNED. Removed tinware, lines and electrical connections REMOVED TINWARE, LINES AND ELECTRICAL CONNECTIONS To ard head. TO ARD HEAD. Removed ard head, installed ard head. reinstalled REMOVED ARD HEAD, INSTALLED ARD HEAD. REINSTALLED Tinware and performed ard ignition test. Passed and released to customer. ***** 250 santa ana ave, bloomington, ca 250 SANTA ANA AVE, BLOOMINGTON, CA Fault code ard e1026 250 santa ana ave, bloomington, ca
Mar 09, 2021	Service	8,049	Perform Ta1 Inspection	Complimentary ta 1 \$149.00 COMPLIMENTARY TA 1 \$149.00

Mar 09, 2021	Service	8,049	Perform Pm 2	Customer complaint: Perform 500 hour service. PERFORM 500 HOUR SERVICE. ***** Repair process comments: REPAIR PROCESS COMMENTS: 3/5/21 traveled to machine (bloomington). 3/5/21 TRAVELED TO MACHINE (BLOOMINGTON). Performed pm service per service hours. Took oil samples. changed engine fluids. changed TOOK OIL SAMPLES. CHANGED ENGINE FLUIDS. CHANGED Engine, fuel, transmission and hydraulic filters. Changed engine and cabin air filters. checked and CHANGED ENGINE AND CABIN AIR FILTERS. CHECKED AND Filled all fluid levels to specs. greased the FILLED ALL FLUID LEVELS TO SPECS. GREASED THE Machine. followed sis maintenance procedure. ***** ***** ANALYZE S-O-S FROM FRONT, FINAL DRIVE TAKE & ANALYZE S-O-S FROM REAR, FUEL FILTER REPLACE SECONDARY, FUEL TANK CL Perform 500 hour service Wednesday 3/3/21 Loc: bloomington yard LOC: BLOOMINGTON YARD
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Mar 09, 2021	Service	8,049	Travel To/from Machine	Loc: bloomington
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Dec 12, 2020	Service	8,698	Install Cab Air Filter	Customer complaint: CUSTOMER COMPLAINT: Install inner and outer cab filters. INSTALL INNER AND OUTER CAB FILTERS. ***** Repair process comments: REPAIR PROCESS COMMENTS: 12/8/20 traveled to machine (rialto). 12/8/20 TRAVELED TO MACHINE (RIALTO). Installed high efficiency cab air intake filter. Installed cab air filter. INSTALLED CAB AIR FILTER. ***** ***** Install inner and outer cab filters INSTALL INNER AND OUTER CAB FILTERS Tuesday 12/8/20 TUESDAY 12/8/20
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Dec 12, 2020	Service	8,698	Travel To/from Machine	Travel: rialto yard TRAVEL: RIALTO YARD
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Nov 06, 2020	Service	8,552	Perform Pm 1	Customer complaint: CUSTOMER COMPLAINT: Perform pm1 as per customers guidelines.. PERFORM PM1 AS PER CUSTOMERS GUIDELINES.. ***** Repair process comments: REPAIR PROCESS COMMENTS: 11/5/20 traveled to machine (bloomington yard). 11/5/20 TRAVELED TO MACHINE (BLOOMINGTON YARD). Performed pm service per service hours. PERFORMED PM SERVICE PER SERVICE HOURS. Took all oil samples and coolant. changed engine TOOK ALL OIL SAMPLES AND COOLANT. CHANGED ENGINE Oil, oil filter and all air filters. checked and Filled all fluid levels to spect (customer FILLED ALL FLUID LEVELS TO SPECT (CUSTOMER Supplied fluids) used hand pump to transfer oil SUPPLIED FLUIDS) USED HAND PUMP TO TRANSFER OIL From a 55 gallon drum. found the engine oil filter Oil lines are leaking. (showed customer). ordered OIL LINES ARE LEAKING. (SHOWED CUSTOMER). ORDERED And customer will pick up and installed him self. AND CUSTOMER WILL PICK UP AND INSTALLED HIM SELF. Found oil leak at the right side steering cylinder FOUND OIL LEAK AT THE RIGHT SIDE STEERING CYLINDER And leak at the right side engine starter seal. AND LEAK AT THE RIGHT SIDE ENGINE STARTER SEAL. Found a broken grease line at the steering Cylinder pin. will need elbow connection. checked CYLINDER PIN. WILL NEED ELBOW CONNECTION. CHECKED All fluid levels and greased all zerk fittings ALL FLUID LEVELS AND GREASED ALL ZERK FITTINGS (advised customer of all the findings on the (ADVISED CUSTOMER OF ALL THE FINDINGS ON THE Machine). followed sis maintenance procedure. MACHINE). FOLLOWED SIS MAINTENANCE PROCEDURE. ***** ***** Perform 250 hour service, change engine, filters, PERFORM 250 HOUR SERVICE, CHANGE ENGINE, FILTERS, Check all fluid, take all oil samples, diff, trans CHECK ALL FLUID, TAKE ALL OIL SAMPLES, DIFF, TRANS Coolant, engine, finals etc etc. COOLANT, ENGINE, FINALS ETC ETC. Loc: bloomington yard LOC: BLOOMINGTON YARD
Nov 06, 2020	Service	8,552	Travel To/from Machine	Loc: bloomington yard LOC: BLOOMINGTON YARD
Nov 06, 2020	Service	8,552	Perform Ta1 Inspection	Complimentary ta 1 \$149.00 COMPLIMENTARY TA 1 \$149.00

Oct 31, 2020	Service	8,218	Repair Nitrogen Oxide Sensor	Customer complaint: Emissions active fault code e1364 "low EMISSIONS ACTIVE FAULT CODE E1364 "LOW Aftertreatment def concentration" AFTERTREATMENT DEF CONCENTRATION" ** Cause of failure: CAUSE OF FAILURE: NOx sensors. NOX SENSORS. *** *** Repair process comments: Downloaded product status report. verified active Fault event was current. started the FAULT EVENT WAS CURRENT. STARTED THE Troubleshooting steps. checked for the proper TROUBLESHOOTING STEPS. CHECKED FOR THE PROPER Installation of the nox sensor. INSTALLATION OF THE NOX SENSOR. Did an aftertreatment system function test and it DID AN AFTERTREATMENT SYSTEM FUNCTION TEST AND IT Failed, due to active fault code. Removed the header, checked the tank level and Temperature. the def fluid was at the top of tank As well as correct temperature. AS WELL AS CORRECT TEMPERATURE. Replaced the sock filter and the filters at the REPLACED THE SOCK FILTER AND THE FILTERS AT THE Def pump. also replaced the filter that was at DEF PUMP. ALSO REPLACED THE FILTER THAT WAS AT The bottom of the pick up tube on the def THE BOTTOM OF THE PICK UP TUBE ON THE DEF Manifold. reassembled and ran another MANIFOLD. REASSEMBLED AND RAN ANOTHER Aftertreatment system function test. AFTERTREATMENT SYSTEM FUNCTION TEST. Failed due to active fault code. tried to clear FAILED DUE TO ACTIVE FAULT CODE. TRIED TO CLEAR The e1364 active event with factory password and THE E1364 ACTIVE EVENT WITH FACTORY PASSWORD AND It would immediately reappear. found the dcu had IT WOULD IMMEDIATELY REAPPEAR. FOUND THE DCU HAD Updated software. the current software file was UPDATED SOFTWARE. THE CURRENT SOFTWARE FILE WAS 539-3577. updated the dcu to 593-7033. did 539-3577. UPDATED THE DCU TO 593-7033. DID Another aftertreatment system function test and ANOTHER AFTERTREATMENT SYSTEM FUNCTION TEST AND Failed due to active diagnostic code present. FAILED DUE TO ACTIVE DIAGNOSTIC CODE PRESENT. Proceeded to check the quality of the def; PROCEEDED TO CHECK THE QUALITY OF THE DEF; Removed header again and drawing a sample of def REMOVED HEADER AGAIN AND DRAWING A SAMPLE OF DEF From the top. the blue shade was at 32% on my FROM THE TOP. THE BLUE SHADE WAS AT 32% ON MY Refractometer. then did a def dosing System verification test 3 different times. SYSTEM VERIFICATION TEST 3 DIFFERENT TIMES. Did not find any liquid or air DID NOT FIND ANY LIQUID OR AIR Leaks coming out of the lines. LEAKS COMING OUT OF THE LINES. Did not hear anything out of the ordinary. the Def pump went into an avg vacuum of -2.5 to -5.7. DEF PUMP WENT INTO AN AVG VACUUM OF -2.5 TO -5.7. Then pressure would go up to 158 psi average and THEN PRESSURE WOULD GO UP TO 158 PSI AVERAGE AND Level out at 132-129 psi and hold there LEVEL OUT AT 132-129 PSI AND HOLD THERE Consistently. all electrical connectors were in CONSISTENTLY. ALL ELECTRICAL CONNECTORS WERE IN Good connection. the def pump area was in dusty GOOD CONNECTION. THE DEF
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AREA WAS IN DUSTY Condition. it was not submerged in compacted CONDITION. IT WAS NOT SUBMERGED IN COMPACTED Dirt. blew off the components with air. ran DIRT. BLEW OFF THE COMPONENTS WITH AIR. RAN Another aftertreatment system function test and It failed again due to active diagnostic code IT FAILED AGAIN DUE TO ACTIVE DIAGNOSTIC CODE Present. PRESENT. Performed a nox sensor functional test. this test Was successful but the active event, 1364 WAS SUCCESSFUL BUT THE ACTIVE EVENT, 1364 Remained active. at this point the machine went REMAINED ACTIVE. AT THIS POINT THE MACHINE WENT Into a level 3 inducement. 100% de rated the Engine. ENGINE. Replaced the nox sensors with new 441-5128 and REPLACED THE NOX SENSORS WITH NEW 441-5128 AND 441-5127. ran another aftertreatment system 441-5127. RAN ANOTHER AFTERTREATMENT SYSTEM Function test. it failed again due to active FUNCTION TEST. IT FAILED AGAIN DUE TO ACTIVE Diagnostic code present. DIAGNOSTIC CODE PRESENT. Performed def dosing accuracy test, found at PERFORMED DEF DOSING ACCURACY TEST, FOUND AT Specs. SPECS. Cleaned the injector tip surface. reinstalled CLEANED THE INJECTOR TIP SURFACE. REINSTALLED The injector. ran another aftertreatment system THE INJECTOR. RAN ANOTHER AFTERTREATMENT SYSTEM Function test and it failed again due to active Diagnostic code present. tried to clear this code DIAGNOSTIC CODE PRESENT. TRIED TO CLEAR THIS CODE With factory password again and it immediately WITH FACTORY PASSWORD AGAIN AND IT IMMEDIATELY Came back. checked the pressure line, again CAME BACK. CHECKED THE PRESSURE LINE, AGAIN Blew soft air through the lines. BLEW SOFT AIR THROUGH THE LINES. Removed the line from the injector and REMOVED THE LINE FROM THE INJECTOR AND Blew soft air through that line. wiped down all BLEW SOFT AIR THROUGH THAT LINE. WIPED DOWN ALL Connection fittings. reinstalled the lines CONNECTION FITTINGS. REINSTALLED THE LINES On def system. ran another aftertreatment ON DEF SYSTEM. RAN ANOTHER AFTERTREATMENT System function test and failed due to active Diagnostic code present. DIAGNOSTIC CODE PRESENT. Checked all clamps on the exhaust system from CHECKED ALL CLAMPS ON THE EXHAUST SYSTEM FROM The turbocharger to the outlet side of the tail THE TURBOCHARGER TO THE OUTLET SIDE OF THE TAIL Pipe. ok. performed another Aftertreatment system function test. it failed Again due to active diagnostic code present. AGAIN DUE TO ACTIVE DIAGNOSTIC CODE PRESENT. Replaced nox sensors. REPLACED NOX SENSORS. Returned, performed a cylinder cutout test. RETURNED, PERFORMED A CYLINDER CUTOUT TEST. That was successful. did a dcu power reset on et And performed another AND PERFORMED ANOTHER Aftertreatment system function test. this time The test was successful and all def codes cleared THE TEST WAS SUCCESSFUL AND ALL DEF CODES CLEARED On their own. ON THEIR OWN. E1364 code occurred 30 days after previous

CODE OCCURED 30 DAYS AFTER PREVIOUS REPAIR E1364
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Oct 31, 2020	Service	8,218	Repair Exhaust Fluid Injector	Customer complaint: Emission codes. ** ** Cause of failure: CAUSE OF FAILURE: Def injector was leaking. DEF INJECTOR WAS LEAKING. *** Resultant damage: RESULTANT DAMAGE: Leaks prior to spraying when the injector LEAKS PRIOR TO SPRAYING WHEN THE INJECTOR Accuracy test was performed. ACCURACY TEST WAS PERFORMED. **** Repair process comments: REPAIR PROCESS COMMENTS: Traveled to rialto. downloaded a psr, active event 1389 inducement, logged event e1364- low def 1389 INDUCEMENT, LOGGED EVENT E1364- LOW DEF Concentration. performed a dosing verification - CONCENTRATION. PERFORMED A DOSING VERIFICATION - Saw 150 psi but setteled to 132 psi. cleared the Event codes. ran aftertreatment system function EVENT CODES. RAN AFTERTREATMENT SYSTEM FUNCTION Test- failed, due high fuel pressure #2. Performed ard igitintion test, passed. ran another PERFORMED ARD IGINTION TEST, PASSED. RAN ANOTHER System function test and it passed. checked def Header, no def optical sensor. check def injector HEADER, NO DEF OPTICAL SENSOR. CHECK DEF INJECTOR Accuracy test, buildup and dripping before it ACCURACY TEST, BUILDUP AND DRIPPING BEFORE IT Sprays. ordered parts and returned. SPRAYS. ORDERED PARTS AND RETURNED. Installed new def injector. ran test again and it INSTALLED NEW DEF INJECTOR. RAN TEST AGAIN AND IT Passed. release to customer. PASSED. RELEASE TO CUSTOMER. ***** Bloomington BLOOMINGTON Emmission codes. loss of prime EMISSION CODES. LOSS OF PRIME EMISSION CODES. LOSS OF PRIME EMISSION CODES. LOSS OF PRIME EMISSION CODES. LOSS OF PRIME
Oct 31, 2020	Service	8,218	Repair Seat	Customer complaint: CUSTOMER COMPLAINT: Seat air does not work. SEAT AIR DOES NOT WORK. ** ** Cause of failure: CAUSE OF FAILURE: Suspension gp. SUSPENSION GP. *** *** Resultant damage: RESULTANT DAMAGE: Seat compressor turns on the seat would not go Up. UP. **** **** Repair process comments: Removed upper seat. could not get the seat REMOVED UPPER SEAT. COULD NOT GET THE SEAT Mechanism to go up. ordered parts and replaced MECHANISM TO GO UP. ORDERED PARTS AND REPLACED The seat suspension with a new one. the seat THE SEAT SUSPENSION WITH A NEW ONE. THE SEAT Worked. WORKED. Repair seat compressor REPAIR SEAT COMPRESSOR REPAIR SEAT COMPRESSOR REPAIR SEAT COMPRESSOR REPAIR SEAT COMPRESSOR

Oct 31, 2020	Service	8,218	Repair Nitrogen Oxide Sensor	Customer complaint: Emissions active fault code e1364 "low EMISSIONS ACTIVE FAULT CODE E1364 "LOW Aftertreatment def concentration" AFTERTREATMENT DEF CONCENTRATION" ** Cause of failure: CAUSE OF FAILURE: Nox sensors. NOX SENSORS. *** *** Repair process comments: Downloaded product status report. verified active Fault event was current. started the FAULT EVENT WAS CURRENT. STARTED THE Troubleshooting steps. checked for the proper TROUBLESHOOTING STEPS. CHECKED FOR THE PROPER Installation of the nox sensor. INSTALLATION OF THE NOX SENSOR. Did an aftertreatment system function test and it DID AN AFTERTREATMENT SYSTEM FUNCTION TEST AND IT Failed, due to active fault code. Removed the header, checked the tank level and Temperature. the def fluid was at the top of tank As well as correct temperature. AS WELL AS CORRECT TEMPERATURE. Replaced the sock filter and the filters at the REPLACED THE SOCK FILTER AND THE FILTERS AT THE Def pump. also replaced the filter that was at DEF PUMP. ALSO REPLACED THE FILTER THAT WAS AT The bottom of the pick up tube on the def THE BOTTOM OF THE PICK UP TUBE ON THE DEF Manifold. reassembled and ran another MANIFOLD. REASSEMBLED AND RAN ANOTHER Aftertreatment system function test. AFTERTREATMENT SYSTEM FUNCTION TEST. Failed due to active fault code. tried to clear FAILED DUE TO ACTIVE FAULT CODE. TRIED TO CLEAR The e1364 active event with factory password and THE E1364 ACTIVE EVENT WITH FACTORY PASSWORD AND It would immediately reappear. found the dcu had IT WOULD IMMEDIATELY REAPPEAR. FOUND THE DCU HAD Updated software. the current software file was UPDATED SOFTWARE. THE CURRENT SOFTWARE FILE WAS 539-3577. updated the dcu to 593-7033. did 539-3577. UPDATED THE DCU TO 593-7033. DID Another aftertreatment system function test and ANOTHER AFTERTREATMENT SYSTEM FUNCTION TEST AND Failed due to active diagnostic code present. FAILED DUE TO ACTIVE DIAGNOSTIC CODE PRESENT. Proceeded to check the quality of the def; PROCEEDED TO CHECK THE QUALITY OF THE DEF; Removed header again and drawing a sample of def REMOVED HEADER AGAIN AND DRAWING A SAMPLE OF DEF From the top. the blue shade was at 32% on my FROM THE TOP. THE BLUE SHADE WAS AT 32% ON MY Refractometer. then did a def dosing System verification test 3 different times. SYSTEM VERIFICATION TEST 3 DIFFERENT TIMES. Did not find any liquid or air DID NOT FIND ANY LIQUID OR AIR Leaks coming out of the lines. LEAKS COMING OUT OF THE LINES. Did not hear anything out of the ordinary. the Def pump went into an avg vacuum of -2.5 to -5.7. DEF PUMP WENT INTO AN AVG VACUUM OF -2.5 TO -5.7. Then pressure would go up to 158 psi average and THEN PRESSURE WOULD GO UP TO 158 PSI AVERAGE AND Level out at 132-129 psi and hold there LEVEL OUT AT 132-129 PSI AND HOLD THERE Consistently. all electrical connectors were in CONSISTENTLY. ALL ELECTRICAL CONNECTORS WERE IN Good connection. the def pump area was in dusty GOOD CONNECTION. THE DEF
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AREA WAS IN DUSTY Condition. it was not submerged in compacted CONDITION. IT WAS NOT SUBMERGED IN COMPACTED Dirt. blew off the components with air. ran DIRT. BLEW OFF THE COMPONENTS WITH AIR. RAN Another aftertreatment system function test and It failed again due to active diagnostic code IT FAILED AGAIN DUE TO ACTIVE DIAGNOSTIC CODE Present. PRESENT. Performed a nox sensor functional test. this test Was successful but the active event, 1364 WAS SUCCESSFUL BUT THE ACTIVE EVENT, 1364 Remained active. at this point the machine went REMAINED ACTIVE. AT THIS POINT THE MACHINE WENT Into a level 3 inducement. 100% de rated the Engine. ENGINE. Replaced the nox sensors with new 441-5128 and REPLACED THE NOX SENSORS WITH NEW 441-5128 AND 441-5127. ran another aftertreatment system 441-5127. RAN ANOTHER AFTERTREATMENT SYSTEM Function test. it failed again due to active FUNCTION TEST. IT FAILED AGAIN DUE TO ACTIVE Diagnostic code present. DIAGNOSTIC CODE PRESENT. Performed def dosing accuracy test, found at PERFORMED DEF DOSING ACCURACY TEST, FOUND AT Specs. SPECS. Cleaned the injector tip surface. reinstalled CLEANED THE INJECTOR TIP SURFACE. REINSTALLED The injector. ran another aftertreatment system THE INJECTOR. RAN ANOTHER AFTERTREATMENT SYSTEM Function test and it failed again due to active Diagnostic code present. tried to clear this code DIAGNOSTIC CODE PRESENT. TRIED TO CLEAR THIS CODE With factory password again and it immediately WITH FACTORY PASSWORD AGAIN AND IT IMMEDIATELY Came back. checked the pressure line, again CAME BACK. CHECKED THE PRESSURE LINE, AGAIN Blew soft air through the lines. BLEW SOFT AIR THROUGH THE LINES. Removed the line from the injector and REMOVED THE LINE FROM THE INJECTOR AND Blew soft air through that line. wiped down all BLEW SOFT AIR THROUGH THAT LINE. WIPED DOWN ALL Connection fittings. reinstalled the lines CONNECTION FITTINGS. REINSTALLED THE LINES On def system. ran another aftertreatment ON DEF SYSTEM. RAN ANOTHER AFTERTREATMENT System function test and failed due to active Diagnostic code present. DIAGNOSTIC CODE PRESENT. Checked all clamps on the exhaust system from CHECKED ALL CLAMPS ON THE EXHAUST SYSTEM FROM The turbocharger to the outlet side of the tail THE TURBOCHARGER TO THE OUTLET SIDE OF THE TAIL Pipe. ok. performed another Aftertreatment system function test. it failed Again due to active diagnostic code present. AGAIN DUE TO ACTIVE DIAGNOSTIC CODE PRESENT. Replaced nox sensors. REPLACED NOX SENSORS. Returned, performed a cylinder cutout test. RETURNED, PERFORMED A CYLINDER CUTOUT TEST. That was successful. did a dcu power reset on et And performed another AND PERFORMED ANOTHER Aftertreatment system function test. this time The test was successful and all def codes cleared THE TEST WAS SUCCESSFUL AND ALL DEF CODES CLEARED On their own. ON THEIR OWN. E1364 code occurred 30 days after previous

				CODE OCCURED 30 DAYS AFTER PREVIOUS REPAIR E1364 CODE OCCURED 30 DAYS AFTER PREVIOUS REPAIR E1364 CODE OCCURED 30 DAYS AFTER PREVIOUS REPAIR On seg 01 ON SEG 01 ON SEG 01 ON SEG 01 ON SEG 01
Sep 21, 2020	Service	8,106	Travel To/from Machine	Travel: bloomington yard TRAVEL: BLOOMINGTON YARD TRAVEL: BLOOMINGTON YARD TRAVEL: BLOOMINGTON YARD TRAVEL: BLOOMINGTON YARD

Sep 21, 2020	Service	8,106	Perform Pm 4	Customer complaint: CUSTOMER COMPLAINT: CUSTOMER COMPLAINT: CUSTOMER COMPLAINT: CUSTOMER COMPLAINT: Peformed 2000 hour service PEFORMED 2000 HOUR SERVICE PEFORMED 2000 HOUR SERVICE PEFORMED 2000 HOUR SERVICE PEFORMED 2000 HOUR SERVICE ***** ***** ***** ***** ***** Repair process comments: REPAIR PROCESS COMMENTS: REPAIR PROCESS COMMENTS: REPAIR PROCESS COMMENTS: REPAIR PROCESS COMMENTS: 8/21/20 traveled to machine (bloomington). 8/21/20 TRAVELED TO MACHINE (BLOOMINGTON). 8/21/20 TRAVELED TO MACHINE (BLOOMINGTON). 8/21/20 TRAVELED TO MACHINE (BLOOMINGTON). 8/21/20 TRAVELED TO MACHINE (BLOOMINGTON). Performed pm service per service hours. PERFORMED PM SERVICE PER SERVICE HOURS. PERFORMED PM SERVICE PER SERVICE HOURS. PERFORMED PM SERVICE PER SERVICE HOURS. PERFORMED PM SERVICE PER SERVICE HOURS. Took oil samples from engine and coolant. changed TOOK OIL SAMPLES FROM ENGINE AND COOLANT. CHANGED TOOK OIL SAMPLES FROM ENGINE AND COOLANT. CHANGED TOOK OIL SAMPLES. CHANGED ALL OILS AND FILTERS. TOOK OIL SAMPLES FROM ENGINE AND COOLANT. CHANGED Engine, hydraulic, trasmission, front, rear axles ENGINE, HYDRAULIC, TRASMISSION, FRONT, REAR AXLES ENGINE, HYDRAULIC, TRASMISSION, FRONT, REAR AXLES CHECKED AND FILLED ALL FLUID LEVELS TO SPECT. ENGINE, HYDRAULIC, TRASMISSION, FRONT, REAR AXLES And all 4 final drive oils. changed all oils, fuel AND ALL 4 FINAL DRIVE OILS. CHANGED ALL OILS, FUEL AND ALL 4 FINAL DRIVE OILS. CHANGED ALL OILS, FUEL ***** AND ALL 4 FINAL DRIVE OILS. CHANGED ALL OILS, FUEL And air filters, including both inner and outer AND AIR FILTERS, INCLUDING BOTH INNER AND OUTER AND AIR FILTERS, INCLUDING BOTH INNER AND OUTER NOTIFIED CUSTOMER THAT THE ENGINE VALVE LASH WAS AND AIR FILTERS, INCLUDING BOTH INNER AND OUTER A/c cab filter. checked and filled all fluid A/C CAB FILTER. CHECKED AND FILLED ALL FLUID NOT ABLE TO BE PERFORMED AT THIS TIME. THE CEM A/C CAB FILTER. CHECKED AND FILLED ALL FLUID A/C CAB FILTER. CHECKED AND FILLED ALL FLUID Levels to spect (customer provided fluids). used PACK THAT SITS ON TOP OF THE VALVE COVER NEEDS TO LEVELS TO SPECT (CUSTOMER PROVIDED FLUIDS). USED LEVELS TO SPECT (CUSTOMER PROVIDED FLUIDS). USED Pnumatic oil transfer pump. greased all fittings PNUMATIC OIL TRANSFER PUMP. GREASED ALL FITTINGS PNUMATIC OIL TRANSFER PUMP. GREASED ALL FITTINGS PNUMATIC OIL TRANSFER PUMP. GREASED ALL FITTINGS BE REMOVED WITH A CRANE IN ORDER TO GAIN ACCESS TO And driveline. followed sis maintenance procedure. AND DRIVELINE. FOLLOWED SIS MAINTENANCE PROCEDURE. AND DRIVELINE. FOLLOWED SIS MAINTENANCE PROCEDURE. AND DRIVELINE. FOLLOWED SIS MAINTENANCE PROCEDURE. THE VALVES. WILL NEED FIELD SERVICE TECH *****
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Sep 21, 2020	Service	8,106	Perform Ta1 Inspection	Complimentary ta 1 \$149.00 COMPLIMENTARY TA 1 \$149.00 COMPLIMENTARY TA 1 \$149.00 COMPLIMENTARY TA 1 \$149.00
Jul 28, 2020	Service	7,769	Repair Transmission Control	Customer complaint: CUSTOMER COMPLAINT: Switch on steering stick not working correctly. SWITCH ON STEERING STICK NOT WORKING CORRECTLY. **** **** Cause of failure: CAUSE OF FAILURE: Downshift button on the handle intermittent. DOWNSHIFT BUTTON ON THE HANDLE INTERMITTENT. *** *** Repair process comments: REPAIR PROCESS COMMENTS: While running the machine, found the down shift WHILE RUNNING THE MACHINE, FOUND THE DOWN SHIFT Button on the handle for the steering not BUTTON ON THE HANDLE FOR THE STEERING NOT Working all the time. Customer said to repair. removed the handle and Removed the old switch. replaced with a new one. REMOVED THE OLD SWITCH. REPLACED WITH A NEW ONE. Now works correctly. NOW WORKS CORRECTLY. Repair upshift switch
Jul 28, 2020	Service	7,769	Trouble Shoot Diesel Exhaust Fluid	Customer complaint: Code on dash for emissions. CODE ON DASH FOR EMISSIONS. ** ** Cause of failure: CAUSE OF FAILURE: Loss of prime. LOSS OF PRIME. *** Resultant damage: RESULTANT DAMAGE: Action lamp. **** **** Repair process comments: REPAIR PROCESS COMMENTS: Ran the test for the def system, passed all the RAN THE TEST FOR THE DEF SYSTEM, PASSED ALL THE Tests with no problem. TESTS WITH NO PROBLEM. The foreman said they had almost ran the def fluid Out and after they filled it the code came up . OUT AND AFTER THEY FILLED IT THE CODE CAME UP . ***** ***** Bloomington BLOOMINGTON Machine down action light MACHINE DOWN ACTION LIGHT Poc: andy 818-335-9128 POC: ANDY 818-335-9128 Loc: bloomington yard

Jul 24, 2020	Service	7,769	Replace Hydraulic Hoses/lines	Customer complaint: CUSTOMER COMPLAINT: Hose leaking. ** Cause of failure: CAUSE OF FAILURE: 3785371 hose. 3785371 HOSE. *** *** Repair process comments: REPAIR PROCESS COMMENTS: Squeezed between the cab and the decking. Removed the old hose that was capped off REMOVED THE OLD HOSE THAT WAS CAPPED OFF And replaced with the updated hose. gave the AND REPLACED WITH THE UPDATED HOSE. GAVE THE Machine back to the foreman. MACHINE BACK TO THE FOREMAN. ***** ***** Bloomington BLOOMINGTON Replace leaking hose that was capped on re13465. 250 e santa ana ave, bloomington 92316
Jul 16, 2020	Service	7,769	Replace Hydraulic Hoses/lines	Customer complaint: CUSTOMER COMPLAINT: Hose leaking. ** Cause of failure: CAUSE OF FAILURE: 3785371 hose. 3785371 HOSE. *** *** Repair process comments: REPAIR PROCESS COMMENTS: Squeezed between the cab and the decking. Removed the old hose that was capped off REMOVED THE OLD HOSE THAT WAS CAPPED OFF And replaced with the updated hose. gave the AND REPLACED WITH THE UPDATED HOSE. GAVE THE Machine back to the foreman. MACHINE BACK TO THE FOREMAN. ***** ***** Bloomington BLOOMINGTON Replace leaking hose that was capped on re13465. 250 e santa ana ave, bloomington 92316
May 22, 2020	Service	7,187	Trouble Shoot Hydraulic Hoses/lines	Customer complaint: CUSTOMER COMPLAINT: Hydraulic leak. ** ** Cause of failure: Hose 378-5371. HOSE 378-5371. *** Repair process comments: REPAIR PROCESS COMMENTS: Found leak under cab. removed hose and capped the Other end. need to replace the hose, advised OTHER END. NEED TO REPLACE THE HOSE, ADVISED Customer the cab needs to be removed to CUSTOMER THE CAB NEEDS TO BE REMOVED TO Replace the hose. customer to reschedule. REPLACE THE HOSE. CUSTOMER TO RESCHEDULE. ***** ***** 250 e santa ana ave, bloomington 92316 250 E SANTA ANA AVE, BLOOMINGTON 92316 Hydraulic oil leak

May 22, 2020	Service	7,187	Trouble Shoot Hydraulic Hoses/lines	Customer complaint: CUSTOMER COMPLAINT: Hydraulic leak. ** ** Cause of failure: Hose 378-5371. HOSE 378-5371. *** Repair process comments: REPAIR PROCESS COMMENTS: Found leak under cab. removed hose and capped the Other end. need to replace the hose, advised OTHER END. NEED TO REPLACE THE HOSE, ADVISED Customer the cab needs to be removed to CUSTOMER THE CAB NEEDS TO BE REMOVED TO Replace the hose. customer to reschedule. REPLACE THE HOSE. CUSTOMER TO RESCHEDULE. ***** ***** 250 e santa ana ave, bloomington 92316 250 E SANTA ANA AVE, BLOOMINGTON 92316 Hydraulic oil leak
May 21, 2020	Service	7,592	Travel To/from Machine	Travel: bloomington yard
May 21, 2020	Service	7,592	Change Filters	Changed inner outer filtes. CHANGED INNER OUTER FILTES. ***per customer request*** ***PER CUSTOMER REQUEST*** ***** ***** Change inner out filter CHANGE INNER OUT FILTER
May 21, 2020	Service	7,592	Perform Ta1 Inspection	Complimentary ta 1 \$149.00 COMPLIMENTARY TA 1 \$149.00
May 21, 2020	Service	7,592	Perform Pm 1	5/20/20 performed pm service per service hours. 5/20/20 PERFORMED PM SERVICE PER SERVICE HOURS. Took oil samples. drained engine oil. changed oil TOOK OIL SAMPLES. DRAINED ENGINE OIL. CHANGED OIL Filter and oil samples. changed air filters. FILTER AND OIL SAMPLES. CHANGED AIR FILTERS. Checked and filled all fluid levels to spect. ***customer supplied fluids*** Followed sis maintenance procedure. ***** ***** Perform 250 hour service Take oil samples (hyd, diff, trans, engine, final) TAKE OIL SAMPLES (HYD, DIFF, TRANS, ENGINE, FINAL) Poc: andy marks 818-335-9128 Loc: bloomington, ca LOC: BLOOMINGTON, CA

May 18, 2020	Service	7,187	Trouble Shoot Hydraulic Hoses/lines	Customer complaint: CUSTOMER COMPLAINT: Hydraulic leak. ** ** Cause of failure: Hose 378-5371. HOSE 378-5371. *** Repair process comments: REPAIR PROCESS COMMENTS: Found leak under cab. removed hose and capped the Other end. need to replace the hose, advised OTHER END. NEED TO REPLACE THE HOSE, ADVISED Customer the cab needs to be removed to CUSTOMER THE CAB NEEDS TO BE REMOVED TO Replace the hose. customer to reschedule. REPLACE THE HOSE. CUSTOMER TO RESCHEDULE. ***** ***** 250 e santa ana ave, bloomington 92316 250 E SANTA ANA AVE, BLOOMINGTON 92316 Hydraulic oil leak
Apr 30, 2020	Service	12,254	Repair Brakes	Repair low brake pressure (change a bunch of parts REPAIR LOW BRAKE PRESSURE (CHANGE A BUNCH OF PARTS That were not fixed

Apr 30, 2020	Service	12,367	Troubleshoot & Repair Emission(s)	Customer complaint: Emissions codes, engine derate. EMISSIONS CODES, ENGINE DERATE. Cause of failure: CAUSE OF FAILURE: Loss of def pressure LOSS OF DEF PRESSURE Repair process comments: Arrived at machine and was advised by customer to Have codes cleared and machine returned to HAVE CODES CLEARED AND MACHINE RETURNED TO Service as quick as possible. customer declined Ta1 inspection as they couldnt down machine for TA1 INSPECTION AS THEY COULDNT DOWN MACHINE FOR Any longer than neccessary. ANY LONGER THAN NECESSARY. Found code e391 for low aftertreatment def Pressure. visually inspected def lines and system PRESSURE. VISUALLY INSPECTED DEF LINES AND SYSTEM And found no leaks or other concerns. removed and AND FOUND NO LEAKS OR OTHER CONCERNS. REMOVED AND Inspected face of def injector, found slight INSPECTED FACE OF DEF INJECTOR, FOUND SLIGHT Crystaling on face of injector, reinstalled CRYSTALLING ON FACE OF INJECTOR, REINSTALLED Injector. def cap was inspected, ok. def quality Is ok. def level gauge is ok. once exhaust had IS OK. DEF LEVEL GAUGE IS OK. ONCE EXHAUST HAD Cooled enough a def verification test was COOLED ENOUGH A DEF VERIFICATION TEST WAS Performed. system held pressure >116 psi, Verifying that pump and lines are working as Intended. aftertreatment system function test was INTENDED. AFTERTREATMENT SYSTEM FUNCTION TEST WAS Sucessfully performed. machine was returned to Service. spoke with customer to monitor concern SERVICE. SPOKE WITH CUSTOMER TO MONITOR CONCERN And to replace def filters as soon as possible to AND TO REPLACE DEF FILTERS AS SOON AS POSSIBLE TO Prevent possible future concerns. PREVENT POSSIBLE FUTURE CONCERNS. *****machine also has an ongoing issue with the *****MACHINE ALSO HAS AN ONGOING ISSUE WITH THE Brake system of low brake accumulator pressure. Please advise customer that this concern should PLEASE ADVISE CUSTOMER THAT THIS CONCERN SHOULD Be corrected as soon as possible before a BE CORRECTED AS SOON AS POSSIBLE BEFORE A Potential catastrophic failure of brake system POTENTIAL CATASTROPHIC FAILURE OF BRAKE SYSTEM Occurs.***** OCCURS.*****
Apr 30, 2020	Service	12,367	Travel To/from Job Site	
Mar 31, 2020	Parts			

Mar 27, 2020	Service	12,108	Troubleshoot & Repair Hydraulic Hoses/lines	Customer complaint: Leaking hydraulic hose LEAKING HYDRAULIC HOSE Cause of failure: CAUSE OF FAILURE: Damage hose DAMAGE HOSE Resultant damage: RESULTANT DAMAGE: Leaking hydraulic oil LEAKING HYDRAULIC OIL Repair process comments: REPAIR PROCESS COMMENTS: 3-12-2020-(1873) Travel to location. unit was parked in safe work Area. Remove the access panel to see the damage hose. REMOVE THE ACCESS PANEL TO SEE THE DAMAGE HOSE. Due to the location of the hydraulic hose it is DUE TO THE LOCATION OF THE HYDRAULIC HOSE IT IS Necessary to remove the cab to get access to the NECESSARY TO REMOVE THE CAB TO GET ACCESS TO THE Hose. remove the rear harness cover and Disconnect harness to cab, remove and cap of the Coolant hoses to the heater. recover the a/c into COOLANT HOSES TO THE HEATER. RECOVER THE A/C INTO Tank. will recharge when job is done. remove and TANK. WILL RECHARGE WHEN JOB IS DONE. REMOVE AND Cap the front hydraulic hoses. take out the CAP THE FRONT HYDRAULIC HOSES. TAKE OUT THE Safety pins for the cab. remove the rear and SAFETY PINS FOR THE CAB. REMOVE THE REAR AND Front cab bolts. will return in the morning to FRONT CAB BOLTS. WILL RETURN IN THE MORNING TO Remove the cab. order the hydraulic hose and it Will be here in the morning. WILL BE HERE IN THE MORNING. 3-13-2020-(1873) 3-13-2020-(1873) Travel to location. prep truck to lift cab out of TRAVEL TO LOCATION. PREP TRUCK TO LIFT CAB OUT OF Unit with the crane. hooked up lifting eye UNIT WITH THE CRANE. HOOKED UP LIFTING EYE Assembly to the cab lifted the cab and move it ASSEMBLY TO THE CAB LIFTED THE CAB AND MOVE IT Over to the ground for safety placed wood blocks To sit cab on. remove the damage hose and TO SIT CAB ON. REMOVE THE DAMAGE HOSE AND Installed the new hose. had to go to shop to INSTALLED THE NEW HOSE. HAD TO GO TO SHOP TO Remake the hydraulic hose because it was 2 inches REMAKE THE HYDRAULIC HOSE BECAUSE IT WAS 2 INCHES Longer. after the getting the 2nd hose travel LONGER. AFTER THE GETTING THE 2ND HOSE TRAVEL Back to location and install the hydraulic hose. BACK TO LOCATION AND INSTALL THE HYDRAULIC HOSE. Replaced tech o- rings for the hoses. prep truck REPLACED TECH O- RINGS FOR THE HOSES. PREP TRUCK For cab installation. install the cab , hoses With new o-rings and harness. install safety pins WITH NEW O-RINGS AND HARNESS. INSTALL SAFETY PINS On cab and cab bolts. customers tech supplied ON CAB AND CAB BOLTS. CUSTOMERS TECH SUPPLIED Hydraulic oil and coolant to top of the unit. HYDRAULIC OIL AND COOLANT TO TOP OF THE UNIT. Test unit and found no more leak. unit works TEST UNIT AND FOUND NO MORE LEAK. UNIT WORKS Great. will return monday morning to recharge a/c GREAT. WILL RETURN MONDAY MORNING TO RECHARGE A/C . 3-16-2020-(1873) 3-16-2020-(1873) Travel to location. TRAVEL TO LOCATION. Hooked up a/c machine to unit and performed a HOOKED UP A/C MACHINE TO UNIT AND PERFORMED A Vacuumed for 25 min. a/c machine found no issues
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systems. used 4. lbs to charge a/c and 3 Oz of oil . test a/c and a/c system performed Great. the cab temp was set at 50 degrees and GREAT. THE CAB TEMP WAS SET AT 50 DEGREES AND The air blowing out was at 51 degrees. unhooked THE AIR BLOWING OUT WAS AT 51 DEGREES. UNHOOKED The a/c machine. done with unit. THE A/C MACHINE. DONE WITH UNIT.

Mar 27, 2020	Service	12,108	Travel To/from Job Site	
Mar 06, 2020	Service	7,128	Perform Pm 2	3/2/20 performed pm service per service hours. 3/2/20 PERFORMED PM SERVICE PER SERVICE HOURS. Took oil samples. drained engine oil. changed oil TOOK OIL SAMPLES. DRAINED ENGINE OIL. CHANGED OIL Filter, air filter, fuel filter, cab filters, Transmission filter and hydraulic filters. checked And filled all fluid levels to spect. followed sis AND FILLED ALL FLUID LEVELS TO SPECT. FOLLOWED SIS Maintenance procedure. ***** ***** Perform 500 hour service PERFORM 500 HOUR SERVICE Monday 3/2/20
Mar 06, 2020	Service	7,128	Travel To/from Machine	Travel: bloomington yard TRAVEL: BLOOMINGTON YARD
Feb 27, 2020	Service	6,908	Replace Cgi Cooler	Customer complaint: CUSTOMER COMPLAINT: Check engine for bad oil samples. CHECK ENGINE FOR BAD OIL SAMPLES. ** ** Cause of failure: CAUSE OF FAILURE: Nrs cooler leaking. *** Resultant damage: RESULTANT DAMAGE: Oil samples bad. OIL SAMPLES BAD. **** Repair process comments: REPAIR PROCESS COMMENTS: Inspected machine and saw signs of coolant from INSPECTED MACHINE AND SAW SIGNS OF COOLANT FROM Exhaust on cooler. removed the cooler and EXHAUST ON COOLER. REMOVED THE COOLER AND Pressure tested. PRESSURE TESTED. It was leaking. replaced the cooler with updated Parts. PARTS. Filled with coolant. removed the dpf and doc for FILLED WITH COOLANT. REMOVED THE DPF AND DOC FOR Cleaning. sent to be cleaned. returned after CLEANING. SENT TO BE CLEANED. RETURNED AFTER Cleaning. reinstalled dpf and doc. ran machine to CLEANING. REINSTALLED DPF AND DOC. RAN MACHINE TO Test and performed manual regen. it was success. TEST AND PERFORMED MANUAL REGEN. IT WAS SUCCESS. Check engine for bad oil samples CHECK ENGINE FOR BAD OIL SAMPLES
Jan 30, 2020	Parts			

Jan 11, 2020	Service	6,519	Replace Drive Train Oil Lines	Customer complaint: CUSTOMER COMPLAINT: Leaking. LEAKING. ** Cause of failure: CAUSE OF FAILURE: Rubbed hose. RUBBED HOSE. *** *** Repair process comments: REPAIR PROCESS COMMENTS: Cleaned mud on trans modulation valves. removed CLEANED MUD ON TRANS MODULATION VALVES. REMOVED Oil and found leak. ordered hose and picked up. Replaced hose and oring seals. machine ran with no REPLACED HOSE AND ORING SEALS. MACHINE RAN WITH NO Leaks LEAKS Oil leak on transmission OIL LEAK ON TRANSMISSION
Jan 11, 2020	Service	6,519	Replace Drive Train Oil Lines	Customer complaint: CUSTOMER COMPLAINT: Leaking. LEAKING. ** Cause of failure: CAUSE OF FAILURE: Rubbed hose. RUBBED HOSE. *** *** Repair process comments: REPAIR PROCESS COMMENTS: Cleaned mud on trans modulation valves. removed CLEANED MUD ON TRANS MODULATION VALVES. REMOVED Oil and found leak. ordered hose and picked up. Replaced hose and oring seals. machine ran with no REPLACED HOSE AND ORING SEALS. MACHINE RAN WITH NO Leaks LEAKS Oil leak on transmission OIL LEAK ON TRANSMISSION
Jan 11, 2020	Service	6,519	Replace Gasket/reseal Steering Cylinder	Customer complaint: CUSTOMER COMPLAINT: Leaks at steering cylinder. LEAKS AT STEERING CYLINDER. ** ** Cause of failure: CAUSE OF FAILURE: Customer welded the boss cracks & heated the Seals. SEALS. *** *** Resultant damage: RESULTANT DAMAGE: Leaks. LEAKS. **** ***** Repair process comments: Removed both tubes and replaced seals. installed REMOVED BOTH TUBES AND REPLACED SEALS. INSTALLED Tubes with new seals. the seals are blown from TUBES WITH NEW SEALS. THE SEALS ARE BLOWN FROM Heat, customer welded the boss cracks on cylinder And seals were blown. Repair steering cylinder leak REPAIR STEERING CYLINDER LEAK
Jan 11, 2020	Service	6,519	Travel To/from Machine	Santa ana ave, bloomington 92316
Jan 11, 2020	Service	6,519	Repair Diesel Particulate Filter	Customer complaint: Emissions codes. ** ** Cause of failure: E1389(1) aftertreatment #1 scr operator E1389(1) AFTERTREATMENT #1 SCR OPERATOR Inducement. INDUCEMENT. *** Resultant damage: RESULTANT DAMAGE: Logged code. LOGGED CODE. *** *** Repair process comments: Traveled to bloomington. performed test good, TRAVELED TO BLOOMINGTON. PERFORMED TEST GOOD, Cleared logged codes. updated flash files. Operator possible shut off engine too early OPERATOR POSSIBLE SHUT OFF ENGINE TOO EARLY Engine has emission codes. ENGINE HAS EMISSION CODES.

Jan 11, 2020	Service	6,519	Repair Light(s)	Complaint: COMPLAINT: Indicator lamp in op *** ** Comments: COMMENTS: Ordered lamp and returned. replaced as per ORDERED LAMP AND RETURNED. REPLACED AS PER Customer. CUSTOMER. Replace the indictor light REPLACE THE INDICTOR LIGHT
Jan 09, 2020	Service	6,804	Travel To/from Machine	Travel: rialto yard TRAVEL: RIALTO YARD
Jan 09, 2020	Service	6,804	Perform Pm 3	1/8/20 performed pm service per service hours. 1/8/20 PERFORMED PM SERVICE PER SERVICE HOURS. S.o.s. samples taken. changed engine and trans S.O.S. SAMPLES TAKEN. CHANGED ENGINE AND TRANS Fluids. changed engine, fuel transmission and FLUIDS. CHANGED ENGINE, FUEL TRANSMISSION AND Hydraulic filters. changed engine and cabin air HYDRAULIC FILTERS. CHANGED ENGINE AND CABIN AIR Filters. checked and filled all fluid levels as FILTERS. CHECKED AND FILLED ALL FLUID LEVELS AS Needed (customer supplied fluids). greased the NEEDED (CUSTOMER SUPPLIED FLUIDS). GREASED THE Machine. followed sis maintenance procedure. ***** ***** Perform 1000 hour service Wednesday 1/8/20
Nov 25, 2019	Parts			
Nov 20, 2019	Service	6,476	Perform Pm 1	Performed pm service per service hours. S.o.s. samples taken from engine. checked and S.O.S. SAMPLES TAKEN FROM ENGINE. CHECKED AND Filled fluid levels as needed. greased all the Grease fittings. ***** ***** Perform 250 hour service PERFORM 250 HOUR SERVICE Friday 11/8/19 FRIDAY 11/8/19 Colton yard COLTON YARD
Oct 25, 2019	Service	6,342	Repair Trans Hydraulic Cont Vlv	Customer complaint: Oil leaking from valve group, rt side of trans. OIL LEAKING FROM VALVE GROUP, RT SIDE OF TRANS. ** ** Cause of failure: Valve gp leaking from stem. VALVE GP LEAKING FROM STEM. *** ** Repair process comments: REPAIR PROCESS COMMENTS: Traveled to machine. inspected area of oil leak. TRAVELED TO MACHINE. INSPECTED AREA OF OIL LEAK. Ordered valve and returned. ORDERED VALVE AND RETURNED. Installed valve and ran the machine to check for Leaks. re calibrated the trans. LEAKS. RE CALIBRATED THE TRANS. Leak on transmission LEAK ON TRANSMISSION
Oct 25, 2019	Service	6,342	Travel To/from Machine	Santa ana, bloomington SANTA ANA, BLOOMINGTON

Oct 25, 2019	Service	6,342	Repair Trans Hydraulic Cont Vlv	Customer complaint: Oil leaking from valve group, rt side of trans. OIL LEAKING FROM VALVE GROUP, RT SIDE OF TRANS. ** ** Cause of failure: Valve gp leaking from stem. VALVE GP LEAKING FROM STEM. *** ** Repair process comments: REPAIR PROCESS COMMENTS: Traveled to machine. inspected area of oil leak. TRAVELED TO MACHINE. INSPECTED AREA OF OIL LEAK. Ordered valve and returned. ORDERED VALVE AND RETURNED. Installed valve and ran the machine to check for Leaks. re calibrated the trans. LEAKS. RE CALIBRATED THE TRANS. Leak on transmission LEAK ON TRANSMISSION
Oct 24, 2019	Service	6,186	Travel To/from Machine	Ramco rialto yard RAMCO RIALTO YARD 250 e santa ana ave, bloomington 250 E SANTA ANA AVE, BLOOMINGTON
Oct 24, 2019	Service	6,186	Replace Back-up Alarm	Customer complaint: CUSTOMER COMPLAINT: Replace aftermarket alarm with a factory alarm. REPLACE AFTERMARKET ALARM WITH A FACTORY ALARM. ** Cause of failure: CAUSE OF FAILURE: Shorted out. *** ** Repair process comments: Checked the wiring and installed a new factory CHECKED THE WIRING AND INSTALLED A NEW FACTORY One. tested and found working good at this time. ONE. TESTED AND FOUND WORKING GOOD AT THIS TIME. Replace aftermarket alarm with factory alarm
Oct 24, 2019	Service	6,186	Trouble Shoot Control Valve Tilt Block	Customer complaint: CUSTOMER COMPLAINT: Return to dig does not operate. RETURN TO DIG DOES NOT OPERATE. ** ** Cause of failure: CAUSE OF FAILURE: Operator. OPERATOR. *** Repair process comments: REPAIR PROCESS COMMENTS: Connected et and found no active or logged events CONNECTED ET AND FOUND NO ACTIVE OR LOGGED EVENTS For auto dig. showed the operator how to set rack FOR AUTO DIG. SHOWED THE OPERATOR HOW TO SET RACK Back and auto lift machine. BACK AND AUTO LIFT MACHINE. Customer states they are losing trans fluid. No visible external leak. showed operator how to Use flat level ground. checked levels at Operating temperatures. it was level. OPERATING TEMPERATURES. IT WAS LEVEL. Return to dig does not operate RETURN TO DIG DOES NOT OPERATE
Oct 07, 2019	Parts			
Sep 30, 2019	Parts			

Sep 16, 2019	Service	6,137	Prep For Sale Machine	Customer complaint: CUSTOMER COMPLAINT: Prep for sale Cause of failure: CAUSE OF FAILURE: Resultant damage: RESULTANT DAMAGE: N/A Repair process comments: REPAIR PROCESS COMMENTS: Got machine from front line in dirt area. took to GOT MACHINE FROM FRONT LINE IN DIRT AREA. TOOK TO Shop. checked fluid levels and topped off any That needed to be topped off. filled up fuel. Checked wiper operation and works good. checked CHECKED WIPER OPERATION AND WORKS GOOD. CHECKED A/ac and heater and both work good. checked A/AC AND HEATER AND BOTH WORK GOOD. CHECKED Lights and all work good. took to wash rack and LIGHTS AND ALL WORK GOOD. TOOK TO WASH RACK AND Washed machine. washed off bucket. after washing. WASHED MACHINE. WASHED OFF BUCKET. AFTER WASHING. Washed off area at wash rack, machine had a lot WASHED OFF AREA AT WASH RACK, MACHINE HAD A LOT OF dirt and mud especially in bucket. took to OF DIRT AND MUD ESPECIALLY IN BUCKET. TOOK TO Shop. cleaned windows. wiped down interior. Parked at doc. did service report. PARKED AT DOC. DID SERVICE REPORT. Delivering 9/4/19 DELIVERING 9/4/19
Sep 16, 2019	Service	6,136	Check & Advise Camera	Customer complaint: CUSTOMER COMPLAINT: N/A Cause of failure: CAUSE OF FAILURE: N/A Resultant damage: N/A Repair process comments: REPAIR PROCESS COMMENTS: I was told to check the back up camera, i found I WAS TOLD TO CHECK THE BACK UP CAMERA, I FOUND That the camera pig tail before the connector to THAT THE CAMERA PIG TAIL BEFORE THE CONNECTOR TO The extended line was rubbing on the rear grille THE EXTENDED LINE WAS RUBBING ON THE REAR GRILLE Causing the camera to short out, when i ordered CAUSING THE CAMERA TO SHORT OUT, WHEN I ORDERED The new camera assembly it had fixed the issue, i THE NEW CAMERA ASSEMBLY IT HAD FIXED THE ISSUE, I Was able to connect the camera and attach it to WAS ABLE TO CONNECT THE CAMERA AND ATTACH IT TO The rear of the machine frame. i then zip tied THE REAR OF THE MACHINE FRAME. I THEN ZIP TIED The cable up to prevent it from rubbing on the THE CABLE UP TO PREVENT IT FROM RUBBING ON THE Grille again. this would fix the issue and allow GRILLE AGAIN. THIS WOULD FIX THE ISSUE AND ALLOW The camera to work without issues. THE CAMERA TO WORK WITHOUT ISSUES. Back up camera inop BACK UP CAMERA INOP
Sep 03, 2019	Parts			

Jul 12, 2019	Service	6,121	Perform Product Support Pgm (psp)	Customer complaint: CUSTOMER COMPLAINT: Perform product support (psp). ps46188 PERFORM PRODUCT SUPPORT (PSP). PS46188 Repair process comments: REPAIR PROCESS COMMENTS: Technician started by looking for the location of TECHNICIAN STARTED BY LOOKING FOR THE LOCATION OF The pl121sr to see what type it was digital or THE PL121SR TO SEE WHAT TYPE IT WAS DIGITAL OR Analog ecm. once technician verify it was digital ANALOG ECM. ONCE TECHNICIAN VERIFY IT WAS DIGITAL Technician hooked up to et with the 9 pin com Adapter and looked for the ecm on the computer ADAPTER AND LOOKED FOR THE ECM ON THE COMPUTER And updated it to file 5798995. once it was AND UPDATED IT TO FILE 5798995. ONCE IT WAS Updated technician made sure the pl300 was UPDATED TECHNICIAN MADE SURE THE PL300 WAS Updated and it was. technician then did a UPDATED AND IT WAS. TECHNICIAN THEN DID A Communication check with product link and it was Working. made sure hours and quinn email was Synchronized and sent registration form. deleted SYNCHRONIZED AND SENT REGISTRATION FORM. DELETED Ques and checked it in with robert to see it was QUES AND CHECKED IT IN WITH ROBERT TO SEE IT WAS Working properly. WORKING PROPERLY. Ps46188 PS46188
Jul 12, 2019	Service	6,121	Repair Fuel Leaks	Customer complaint: CUSTOMER COMPLAINT: N/A Cause of failure: CAUSE OF FAILURE: N/A Resultant damage: RESULTANT DAMAGE: Repair process comments: REPAIR PROCESS COMMENTS: The fuel transfer pump was not leaking it was just THE FUEL TRANSFER PUMP WAS NOT LEAKING IT WAS JUST A hose above that had a leak prior and had spilt A HOSE ABOVE THAT HAD A LEAK PRIOR AND HAD SPILT Down on to the pump. DOWN ON TO THE PUMP. Fuel transfer pump leaks? FUEL TRANSFER PUMP LEAKS?
Jul 12, 2019	Service	6,121	Replace Window Glass	Customer complaint: N/A Cause of failure: CAUSE OF FAILURE: N/a N/A Resultant damage: RESULTANT DAMAGE: N/a N/A Repair process comments: REPAIR PROCESS COMMENTS: I ordered the three front window glass pieces that I ORDERED THE THREE FRONT WINDOW GLASS PIECES THAT Were damaged and the glass company came to WERE DAMAGED AND THE GLASS COMPANY CAME TO Install them. INSTALL THEM.
Jul 12, 2019	Service	6,121	Repair Steering Cylinder	Customer complaint: N/A Cause of failure: CAUSE OF FAILURE: N/a N/A Resultant damage: RESULTANT DAMAGE: N/A Repair process comments: REPAIR PROCESS COMMENTS: I removed the steering cylinder and had to send it I REMOVED THE STEERING CYLINDER AND HAD TO SEND IT Off to the hydraulic shoptoget rebuilt. once i Got it back i put it back on the machine and GOT IT BACK I PUT IT BACK ON THE MACHINE AND Tested it to see if it leaked, the cylinder was TESTED IT TO SEE IF IT LEAKED, THE CYLINDER WAS Now fixed. NOW FIXED. Lt side leaks oil LT SIDE LEAKS OIL

Jul 12, 2019	Service	6,121	Perform Sos Kit(s)	Customer complaint: CUSTOMER COMPLAINT: Perform sos kit(s). Repair process comments: REPAIR PROCESS COMMENTS: Technician perform sos kit samples on machine on TECHNICIAN PERFORM SOS KIT SAMPLES ON MACHINE ON All fluids. ALL FLUIDS. Sample machine
Jul 12, 2019	Service	6,121	Clean Cab	Customer complaint: CUSTOMER COMPLAINT: N/A Cause of failure: N/A Resultant damage: N/A Repair process comments: REPAIR PROCESS COMMENTS: I removed the floor mat in the cab of the machine I REMOVED THE FLOOR MAT IN THE CAB OF THE MACHINE And spent a good amount of time with a hand AND SPENT A GOOD AMOUNT OF TIME WITH A HAND Scraper to remove all the dirt, once i had it all SCRAPER TO REMOVE ALL THE DIRT, ONCE I HAD IT ALL Broken up i then used a vacuum to remove it all. BROKEN UP I THEN USED A VACUUM TO REMOVE IT ALL. Once that was done i wiped down everything else With final step. Cab needs dirt cleaned out under mat CAB NEEDS DIRT CLEANED OUT UNDER MAT

Jul 12, 2019	Service	6,121	Repair Windshield Wiper	Customer complaint: CUSTOMER COMPLAINT: N/A Cause of failure: CAUSE OF FAILURE: N/A Resultant damage: RESULTANT DAMAGE: N/a N/A Repair process comments: REPAIR PROCESS COMMENTS: I replaced the front windshield blades and tested I REPLACED THE FRONT WINDSHIELD BLADES AND TESTED Using the windshield wiper washer. USING THE WINDSHIELD WIPER WASHER. Customer complaint: CUSTOMER COMPLAINT: Front wiper doesn't operate FRONT WIPER DOESN'T OPERATE Cause of failure: Wiper motor blown WIPER MOTOR BLOWN Resultant damage: RESULTANT DAMAGE: Not able to operate NOT ABLE TO OPERATE Repair process comments: REPAIR PROCESS COMMENTS: Troubleshoot to see why it doesn't move. checked Fuse. checked relay and both are good. checked FUSE. CHECKED RELAY AND BOTH ARE GOOD. CHECKED Wiper motor and it is getting right voltage so WIPER MOTOR AND IT IS GETTING RIGHT VOLTAGE SO Switch works but still checked wiper switch and Works good. so removed front dashboard to be able WORKS GOOD. SO REMOVED FRONT DASHBOARD TO BE ABLE To get to wiper motor. removed motor and checked Resistance on it and it had high resistance. RESISTANCE ON IT AND IT HAD HIGH RESISTANCE. Tried operating motor without it being connected TRIED OPERATING MOTOR WITHOUT IT BEING CONNECTED To wiper assembly and motor moved very little but TO WIPER ASSEMBLY AND MOTOR MOVED VERY LITTLE BUT Right away it got hot. so concluded the motor Don't work. ordered motor. removed front wiper DON'T WORK. ORDERED MOTOR. REMOVED FRONT WIPER Blade assembly. then removed complete assembly. BLADE ASSEMBLY. THEN REMOVED COMPLETE ASSEMBLY. Installed new motor and assembly. installed INSTALLED NEW MOTOR AND ASSEMBLY. INSTALLED Wipers. tested motor and works good. so cleaned WIPERS. TESTED MOTOR AND WORKS GOOD. SO CLEANED Window. then installed front dashboard. tested WINDOW. THEN INSTALLED FRONT DASHBOARD. TESTED Wiper motor to make sure it doesn't over heat and Works great. cleaned area. did service report. WORKS GREAT. CLEANED AREA. DID SERVICE REPORT. Front inop & needs blades FRONT INOP & NEEDS BLADES
Jul 12, 2019	Service	6,121	Recondition Cylinder	Customer complaint: cylinder non functional CUSTOMER COMPLAINT: CYLINDER NON FUNCTIONAL Cause of failure: worn seals and rod needed chrome CAUSE OF FAILURE: WORN SEALS AND ROD NEEDED CHROME Repair process REPAIR PROCESS Comments: technician disassembled cylinder and COMMENTS: TECHNICIAN DISASSEMBLED CYLINDER AND Cleaned all parts for inspection. resealed and CLEANED ALL PARTS FOR INSPECTION. RESEALED AND Reassembled, pressure tested then painted

Jul 12, 2019	Service	6,121	Check & Advise Bucket Linkage	Customer complaint: N/A Cause of failure: CAUSE OF FAILURE: N/A Resultant damage: RESULTANT DAMAGE: N/A N/A Repair process comments: REPAIR PROCESS COMMENTS: The bucket linkage had a broken bolt, i tried to Drill out the bolt but ended up breaking my easy DRILL OUT THE BOLT BUT ENDED UP BREAKING MY EASY Outs because of the hardened steel. i now needed OUTS BECAUSE OF THE HARDENED STEEL. I NOW NEEDED To cut the bracket that was holding the broken TO CUT THE BRACKET THAT WAS HOLDING THE BROKEN Bolt. once i cut it off i ordered a new one and BOLT. ONCE I CUT IT OFF I ORDERED A NEW ONE AND Had the welder weld on a new one. i also got new HAD THE WELDER WELD ON A NEW ONE. I ALSO GOT NEW Hardware to hold that bucket linkage pin in. HARDWARE TO HOLD THAT BUCKET LINKAGE PIN IN. Bucket 1 tilt linkage lower pin tab bolt broken Off maybe needs new pin & bushing OFF MAYBE NEEDS NEW PIN & BUSHING
Jul 12, 2019	Service	6,121	Repair Fuel Leaks	Customer complaint: CUSTOMER COMPLAINT: N/A Cause of failure: CAUSE OF FAILURE: N/A Resultant damage: RESULTANT DAMAGE: N/A Repair process comments: REPAIR PROCESS COMMENTS: I had to remove all the fuel from the fuel tank in I HAD TO REMOVE ALL THE FUEL FROM THE FUEL TANK IN Order to replace the gasket that was bad. once i ORDER TO REPLACE THE GASKET THAT WAS BAD. ONCE I Did that i replaced the gasket. i then filled the DID THAT I REPLACED THE GASKET. I THEN FILLED THE Tank back up and tested it noticing that not only Was the gasket leaking but also the quick fill WAS THE GASKET LEAKING BUT ALSO THE QUICK FILL Valve, so i ordered the valve and repeated the VALVE, SO I ORDERED THE VALVE AND REPEATED THE Process, this time being successful stopping all PROCESS, THIS TIME BEING SUCCESSFUL STOPPING ALL The fuel leaks. THE FUEL LEAKS.
Jul 12, 2019	Service	6,121	Check & Advise Oil Leaks	Customer complaint: CUSTOMER COMPLAINT: N/A Cause of failure: N/A Resultant damage: RESULTANT DAMAGE: N/A Repair process comments: REPAIR PROCESS COMMENTS: I found that the pan was seeping oil so i I FOUND THAT THE PAN WAS SEEPING OIL SO I Tightened the back four bolts a half turn, Cleaned and then drove the machine to make sure CLEANED AND THEN DROVE THE MACHINE TO MAKE SURE OF no more leaks. OF NO MORE LEAKS. Is it leaking or seeping? oil pan or front cover?
Jul 12, 2019	Service	6,121	Repair Transmission Leak	Customer complaint: CUSTOMER COMPLAINT: N/A Cause of failure: N/A Resultant damage: N/A Repair process comments: REPAIR PROCESS COMMENTS: I found that the control plate was loose one I FOUND THAT THE CONTROL PLATE WAS LOOSE ONE Tightened there were no further leaks. Control plate on trans leaks oil CONTROL PLATE ON TRANS LEAKS OIL

Jul 12, 2019	Service	6,121	Perform Product Support Pgm (psp)	Customer complaint: CUSTOMER COMPLAINT: Perform product support (psp). ps46188 PERFORM PRODUCT SUPPORT (PSP). PS46188 Repair process comments: REPAIR PROCESS COMMENTS: Technician started by looking for the location of TECHNICIAN STARTED BY LOOKING FOR THE LOCATION OF The pl121sr to see what type it was digital or THE PL121SR TO SEE WHAT TYPE IT WAS DIGITAL OR Analog ecm. once technician verify it was digital ANALOG ECM. ONCE TECHNICIAN VERIFY IT WAS DIGITAL Technician hooked up to et with the 9 pin com Adapter and looked for the ecm on the computer ADAPTER AND LOOKED FOR THE ECM ON THE COMPUTER And updated it to file 5798995. once it was AND UPDATED IT TO FILE 5798995. ONCE IT WAS Updated technician made sure the pl300 was UPDATED TECHNICIAN MADE SURE THE PL300 WAS Updated and it was. technician then did a UPDATED AND IT WAS. TECHNICIAN THEN DID A Communication check with product link and it was Working. made sure hours and quinn email was Synchronized and sent registration form. deleted SYNCHRONIZED AND SENT REGISTRATION FORM. DELETED Ques and checked it in with robert to see it was QUES AND CHECKED IT IN WITH ROBERT TO SEE IT WAS Working properly. WORKING PROPERLY. Ps46188 PS46188
Jul 12, 2019	Service	6,121	Replace Seat Belt	Customer complaint: CUSTOMER COMPLAINT: N/a N/A Cause of failure: CAUSE OF FAILURE: N/A Resultant damage: RESULTANT DAMAGE: N/A Repair process comments: REPAIR PROCESS COMMENTS: I replaced the out dated seat belt with a new up I REPLACED THE OUT DATED SEAT BELT WITH A NEW UP To date seat belt to insure proper safety TO DATE SEAT BELT TO INSURE PROPER SAFETY
Jul 12, 2019	Service	6,121	Repair Fender	Customer complaint: CUSTOMER COMPLAINT: N/A Cause of failure: CAUSE OF FAILURE: N/A Resultant damage: N/A Repair process comments: REPAIR PROCESS COMMENTS: Lt front fender support was bent but after LT FRONT FENDER SUPPORT WAS BENT BUT AFTER Spending time on it i was told to let it be Because the weight of the top piece was only BECAUSE THE WEIGHT OF THE TOP PIECE WAS ONLY Going to bend it right back. GOING TO BEND IT RIGHT BACK. Lt front fender support bent-can repair LT FRONT FENDER SUPPORT BENT-CAN REPAIR

Jul 12, 2019	Service	6,121	Torque/tighten Tire(s)	Customer complaint: CUSTOMER COMPLAINT: Tires have been replaced, want us to check if TIRES HAVE BEEN REPLACED, WANT US TO CHECK IF Bolts are torqued BOLTS ARE TORQUED Cause of failure: CAUSE OF FAILURE: N/A Resultant damage: RESULTANT DAMAGE: N/a Repair process comments: REPAIR PROCESS COMMENTS: Had to run machine for a while to be able to check HAD TO RUN MACHINE FOR A WHILE TO BE ABLE TO CHECK If tires are torqued right. got 3/4 torque wrench And socket. checked on sis for proper spec. AND SOCKET. CHECKED ON SIS FOR PROPER SPEC. Started torquing tires. once finished 2 tires STARTED TORQUING TIRES. ONCE FINISHED 2 TIRES Then got instructions to move machine to doc Because they are going to replace 2 tires after All. so took machine to doc. had to move a few ALL. SO TOOK MACHINE TO DOC. HAD TO MOVE A FEW Machines to make room so they can replace tires. MACHINES TO MAKE ROOM SO THEY CAN REPLACE TIRES. Then got instructions to clean work area where THEN GOT INSTRUCTIONS TO CLEAN WORK AREA WHERE Tire mechanics left old parts from previous day, TIRE MECHANICS LEFT OLD PARTS FROM PREVIOUS DAY, Put rims and parts on pallets. took to attachment PUT RIMS AND PARTS ON PALLETS. TOOK TO ATTACHMENT Yard and marked with work order and serial number YARD AND MARKED WITH WORK ORDER AND SERIAL NUMBER On parts. did service report. cleaned area where ON PARTS. DID SERVICE REPORT. CLEANED AREA WHERE Tire specialist worked on machine previous day For example jack stands, dirt from bucket when Lifted machine up so used sweeper to clean area. LIFTED MACHINE UP SO USED SWEEPER TO CLEAN AREA. Then drove machine for a long time at dirt area. Took to shop to torque bolts again to proper Spec. parked machine. did service report. SPEC. PARKED MACHINE. DID SERVICE REPORT.
Jul 12, 2019	Service	6,121	Replace Air Conditioner	Customer complaint: CUSTOMER COMPLAINT: N/a N/A Cause of failure: CAUSE OF FAILURE: N/A Resultant damage: N/a Repair process comments: REPAIR PROCESS COMMENTS: The air conditioner filter was clogged and needed To be changed so i replaced it with a new one. TO BE CHANGED SO I REPLACED IT WITH A NEW ONE. The air was cleaner and colder. THE AIR WAS CLEANER AND COLDER.

Jul 12, 2019	Service	6,121	Check Out Machine	Customer complaint: CUSTOMER COMPLAINT: Check out machine CHECK OUT MACHINE Cause of failure: CAUSE OF FAILURE: N/A Resultant damage: N/A Repair process comments: REPAIR PROCESS COMMENTS: Used tablet to perform check out. ran machine for USED TABLET TO PERFORM CHECK OUT. RAN MACHINE FOR A while to get fluids hot. checked lights and 1 A WHILE TO GET FLUIDS HOT. CHECKED LIGHTS AND 1 Work light doesn't turn on. checked fluids and Topped off hydraulic and def. checked operation Of hydraulic system and work good. checked for OF HYDRAULIC SYSTEM AND WORK GOOD. CHECKED FOR Leaks and no leak found. checked wiper operation LEAKS AND NO LEAK FOUND. CHECKED WIPER OPERATION And front wiper don't work, so took note and did AND FRONT WIPER DON'T WORK, SO TOOK NOTE AND DID A little trouble shooting on wiper motor by A LITTLE TROUBLE SHOOTING ON WIPER MOTOR BY Checking if motor is connected and if fuse works CHECKING IF MOTOR IS CONNECTED AND IF FUSE WORKS. Also trouble shoot work lights and found out bulb ALSO TROUBLE SHOOT WORK LIGHTS AND FOUND OUT BULB Assembly don't work. noticed later on that ASSEMBLY DON'T WORK. NOTICED LATER ON THAT Separate segment was opened to fix that. so got SEPARATE SEGMENT WAS OPENED TO FIX THAT. SO GOT Approval to fix wiper issue. noticed back up APPROVAL TO FIX WIPER ISSUE. NOTICED BACK UP Beeping doesn't work. greased machine. did BEEPING DOESN'T WORK. GREASED MACHINE. DID Service report.
Jan 08, 2019	Service	6,116	Repair Engine Cooling System	Customer concern CUSTOMER CONCERN Engine overheating. ENGINE OVERHEATING. Cause of failure CAUSE OF FAILURE Internally shorted coolant temp sensor INTERNALLY SHORTED COOLANT TEMP SENSOR Resultant damage RESULTANT DAMAGE No damage caused. NO DAMAGE CAUSED. Repair comments I trouble shot engine overheating. i found the Coolant temp sensor to be supplying a false signal Due to an internal short. i ordered and replaced DUE TO AN INTERNAL SHORT. I ORDERED AND REPLACED The coolant temp sensor, topped off coolant, and THE COOLANT TEMP SENSOR, TOPPED OFF COOLANT, AND Ran the machine to verify repair. deleted all Codes when completed. had to jump start machine CODES WHEN COMPLETED. HAD TO JUMP START MACHINE Multiple times due to old batteries. MULTIPLE TIMES DUE TO OLD BATTERIES.
Jan 08, 2019	Service	6,116	Replace Battery	Customer concern CUSTOMER CONCERN Had to jump start machine multiple times due to HAD TO JUMP START MACHINE MULTIPLE TIMES DUE TO Old batteries. OLD BATTERIES. Repair comments REPAIR COMMENTS Had to replace batteries. would not hold charge. HAD TO REPLACE BATTERIES. WOULD NOT HOLD CHARGE.

FLUID ANALYSIS (198 Records)

Jun 24, 2025	No Action Required	16,529	Engine	ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Mar 31, 2025	No Action Required	16,243	Final Drive Front Left	UNKNOWN HOURS ON THE OIL. ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Mar 31, 2025	No Action Required	16,243	Differential Rear	UNKNOWN HOURS ON THE OIL. ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Mar 31, 2025	No Action Required	16,243	Final Drive Rear Right	UNKNOWN HOURS ON THE OIL. ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Mar 31, 2025	No Action Required	16,243	Engine	UNKNOWN HOURS ON THE OIL. ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Mar 31, 2025	No Action Required	16,243	Differential Front	UNKNOWN HOURS ON THE OIL. ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Mar 31, 2025	No Action Required	16,243	Final Drive Front Right	UNKNOWN HOURS ON THE OIL. ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Mar 31, 2025	No Action Required	16,243	Hydraulic System	UNKNOWN HOURS ON THE OIL. ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.

Mar 31, 2025	 No Action Required	16,243	Transmission Power Shift	UNKNOWN HOURS ON THE OIL. ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Mar 31, 2025	 No Action Required	16,243	Final Drive Rear Left	UNKNOWN HOURS ON THE OIL. ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Dec 11, 2024	 No Action Required	15,960	Final Drive Rear Right	UNKNOWN HOURS ON THE OIL. ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Dec 11, 2024	 No Action Required	15,960	Engine	ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Dec 11, 2024	 No Action Required	15,960	Final Drive Rear Left	UNKNOWN HOURS ON THE OIL. ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Dec 11, 2024	 No Action Required	15,960	Final Drive Front Left	UNKNOWN HOURS ON THE OIL. ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Dec 11, 2024	 No Action Required	15,960	Differential Front	UNKNOWN HOURS ON THE OIL. ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Dec 11, 2024	 No Action Required	15,960	Hydraulic System	UNKNOWN HOURS ON THE OIL. ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Dec 11, 2024	 No Action Required	15,960	Differential Rear	UNKNOWN HOURS ON THE OIL. ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.

Dec 11, 2024	 No Action Required	15,960	Final Drive Front Right	UNKNOWN HOURS ON THE OIL. ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Dec 11, 2024	 No Action Required	15,960	Transmission Power Shift	UNKNOWN HOURS ON THE OIL. ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Sep 11, 2024	 No Action Required	15,689	Final Drive Rear Right	ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Sep 11, 2024	 No Action Required	15,689	Final Drive Rear Right	ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Sep 11, 2024	 No Action Required	15,689	Final Drive Front Left	ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Sep 11, 2024	 No Action Required	15,689	Transmission Power Shift	ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Sep 11, 2024	 No Action Required	15,689	Final Drive Rear Left	ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Sep 11, 2024	 No Action Required	15,689	Differential Front	ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Sep 11, 2024	 No Action Required	15,689	Engine	UNKNOWN HOURS ON THE OIL. ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Sep 11, 2024	 No Action Required	15,689	Final Drive Front Left	ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.

Sep 11, 2024	 No Action Required	15,689	Final Drive Front Right	ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Sep 11, 2024	 No Action Required	15,689	Final Drive Front Right	ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Sep 11, 2024	 Monitor	15,689	Hydraulic System	PARTICLE COUNT IS HIGH. SILICON AND ALUMINUM ARE ELEVATED AND MAY INDICATE DIRT ENTRY. ALL OTHER ANALYSIS READINGS APPEAR NORMAL. CUT OPEN FILTER(S) AND INSPECT FOR DEBRIS. INSPECT FOR SOURCE OF DIRT ENTRY INTO THE SYSTEM. CHANGE OIL AND FILTER(S) AND RESAMPLE IN 250 HOURS TO MONITOR.
Sep 11, 2024	 No Action Required	15,689	Engine	UNKNOWN HOURS ON THE OIL. ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Sep 11, 2024	 No Action Required	15,689	Differential Rear	ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Jun 24, 2024	 No Action Required	15,374	Engine	ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
May 15, 2024	 No Action Required	15,123	Final Drive Front Left	UNKNOWN HOURS ON THE OIL. ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
May 15, 2024	 No Action Required	15,123	Differential Rear	UNKNOWN HOURS ON THE OIL. ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
May 15, 2024	 No Action Required	15,123	Differential Front	UNKNOWN HOURS ON THE OIL. ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.

May 15, 2024	 No Action Required	15,123	Transmission Power Shift	UNKNOWN HOURS ON THE OIL. ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
May 15, 2024	 No Action Required	15,123	Final Drive Front Right	UNKNOWN HOURS ON THE OIL. ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
May 15, 2024	 No Action Required	15,123	Hydraulic System	UNKNOWN HOURS ON THE OIL. ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
May 15, 2024	 No Action Required	15,123	Final Drive Rear Left	UNKNOWN HOURS ON THE OIL. ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
May 15, 2024	 No Action Required	15,123	Final Drive Rear Right	UNKNOWN HOURS ON THE OIL. ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Apr 05, 2024	 No Action Required	14,844	Engine	UNKNOWN HOURS ON THE OIL. ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Mar 15, 2024	 No Action Required	15,123	Engine	UNKNOWN HOURS ON THE OIL. ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Feb 24, 2024	 No Action Required	14,560	Final Drive Front Left	VISCOSITY IS ELEVATED FOR A 30.PLEASE CONFIRM WT. OF OIL BEING USED IN THIS COMPARTMENT. ALL OTHER ANALYSIS READINGS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Feb 24, 2024	 No Action Required	14,560	Transmission Power Shift	ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.

Feb 24, 2024	 No Action Required	14,560	Hydraulic System	ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Feb 24, 2024	 No Action Required	14,560	Final Drive Rear Left	ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Feb 24, 2024	 No Action Required	14,560	Differential Rear	VISCOSITY IS ELEVATED FOR A 30.PLEASE CONFIRM WT. OF OIL BEING USED IN THIS COMPARTMENT. ALL OTHER ANALYSIS READINGS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Feb 24, 2024	 No Action Required	14,560	Final Drive Front Right	VISCOSITY IS ELEVATED FOR A 30.PLEASE CONFIRM WT. OF OIL BEING USED IN THIS COMPARTMENT. ALL OTHER ANALYSIS READINGS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Feb 24, 2024	 No Action Required	14,560	Final Drive Rear Right	VISCOSITY IS ELEVATED FOR A 30WT. PLEASE CONFIRM WT. OF OIL BEING USED IN THIS COMPARTMENT. ALL OTHER ANALYSIS READINGS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Feb 24, 2024	 No Action Required	14,560	Differential Front	ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Feb 02, 2024	 No Action Required	14,560	Engine	SODIUM IS ELEVATED. NO GLYCOL/WATER DETECTED. ALL OTHER ANALYSIS READINGS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Jan 08, 2024	 No Action Required	14,300	Engine	SODIUM IS ELEVATED. NO GLYCOL/WATER DETECTED. ALL OTHER ANALYSIS READINGS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.

Nov 15, 2023	 Monitor	14,072	Final Drive Front Right	UNKNOWN HOURS ON THE OIL. IRON IS ELEVATED AND MAY INDICATE GEAR / BEARING WEAR. ALL OTHER ANALYSIS READINGS APPEAR NORMAL. INSPECT ANY MAGNETIC PLUG(S) FOR DEBRIS. RESAMPLE IN 250 HOURS TO MONITOR.
Nov 15, 2023	 Monitor	14,072	Final Drive Front Left	UNKNOWN HOURS ON THE OIL. IRON IS ELEVATED AND MAY INDICATE GEAR / BEARING WEAR. ALL OTHER ANALYSIS READINGS APPEAR NORMAL. INSPECT ANY MAGNETIC PLUG(S) FOR DEBRIS. RESAMPLE IN 250 HOURS TO MONITOR.
Nov 15, 2023	 Monitor	14,072	Differential Front	UNKNOWN HOURS ON THE OIL. IRON IS ELEVATED AND MAY INDICATE GEAR / BEARING WEAR. ALL OTHER ANALYSIS READINGS APPEAR NORMAL. INSPECT ANY MAGNETIC PLUG(S) FOR DEBRIS. RESAMPLE IN 250 HOURS TO MONITOR.
Nov 15, 2023	 Monitor	14,072	Differential Front	UNKNOWN HOURS ON THE OIL. IRON IS ELEVATED AND MAY INDICATE GEAR / BEARING WEAR. ALL OTHER ANALYSIS READINGS APPEAR NORMAL. INSPECT ANY MAGNETIC PLUG(S) FOR DEBRIS. RESAMPLE IN 250 HOURS TO MONITOR.
Nov 15, 2023	 No Action Required	14,072	Final Drive Rear Right	UNKNOWN HOURS ON THE OIL. ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Nov 15, 2023	 No Action Required	14,072	Differential Rear	UNKNOWN HOURS ON THE OIL. ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Nov 15, 2023	 No Action Required	14,072	Final Drive Rear Left	UNKNOWN HOURS ON THE OIL. ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.

Nov 15, 2023	 No Action Required	14,072	Final Drive Rear Right	UNKNOWN HOURS ON THE OIL. ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Nov 15, 2023	 No Action Required	14,072	Final Drive Rear Left	UNKNOWN HOURS ON THE OIL. ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Nov 15, 2023	 Monitor	14,072	Final Drive Front Right	UNKNOWN HOURS ON THE OIL. IRON IS ELEVATED AND MAY INDICATE GEAR / BEARING WEAR. ALL OTHER ANALYSIS READINGS APPEAR NORMAL. INSPECT ANY MAGNETIC PLUG(S) FOR DEBRIS. RESAMPLE IN 250 HOURS TO MONITOR.
Nov 15, 2023	 No Action Required	14,072	Differential Rear	UNKNOWN HOURS ON THE OIL. ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Nov 15, 2023	 Monitor	14,072	Final Drive Front Left	UNKNOWN HOURS ON THE OIL. IRON IS ELEVATED AND MAY INDICATE GEAR / BEARING WEAR. ALL OTHER ANALYSIS READINGS APPEAR NORMAL. INSPECT ANY MAGNETIC PLUG(S) FOR DEBRIS. RESAMPLE IN 250 HOURS TO MONITOR.
Nov 14, 2023	 No Action Required	14,072	Transmission Power Shift	ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Nov 14, 2023	 No Action Required	14,072	Hydraulic System	UNKNOWN HOURS ON THE OIL. ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Nov 14, 2023	 No Action Required	14,072	Engine	SODIUM IS ELEVATED. NO GLYCOL/WATER DETECTED. ALL OTHER ANALYSIS READINGS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.

Sep 10, 2023	 No Action Required	13,600	Differential Rear	UNKNOWN HOURS ON THE OIL. ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Sep 10, 2023	 Monitor	13,600	Engine	UNKNOWN HOURS ON THE OIL. SODIUM IS ELEVATED. NO GLYCOL/WATER DETECTED. IRON IS ELEVATED AND MAY INDICATE CYLINDER WEAR. LEAD IS ELEVATED AND MAY INDICATE BEARING WEAR. CUT OPEN FILTER(S) AND INSPECT FOR DEBRIS. MONITOR FLUID LEVELS/USAGE. CHANGE OIL AND FILTER(S) AND RESAMPLE IN 250 HOURS TO MONITOR.
Sep 10, 2023	 Monitor	13,600	Final Drive Front Left	UNKNOWN HOURS ON THE OIL. IRON IS ELEVATED AND MAY INDICATE GEAR / BEARING WEAR. ALL OTHER ANALYSIS READINGS APPEAR NORMAL. INSPECT ANY MAGNETIC PLUG(S) FOR DEBRIS. RESAMPLE IN 250 HOURS TO MONITOR.
Sep 10, 2023	 Monitor	13,600	Hydraulic System	UNKNOWN HOURS ON THE OIL. PARTICLE COUNT IS ELEVATED. ALL OTHER ANALYSIS READINGS APPEAR NORMAL. CUT OPEN FILTER(S) AND INSPECT FOR DEBRIS. CHANGE OIL AND FILTER(S) AND RESAMPLE IN 250 HOURS TO MONITOR.
Sep 10, 2023	 No Action Required	13,600	Transmission Power Shift	ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Sep 10, 2023	 Monitor	13,600	Differential Front	UNKNOWN HOURS ON THE OIL. IRON IS ELEVATED AND MAY INDICATE GEAR / BEARING WEAR. ALL OTHER ANALYSIS READINGS APPEAR NORMAL. INSPECT ANY MAGNETIC PLUG(S) FOR DEBRIS. RESAMPLE IN 250 HOURS TO MONITOR.
Sep 10, 2023	 Monitor	13,600	Final Drive Front Right	UNKNOWN MILES ON THE OIL. IRON IS ELEVATED AND MAY INDICATE GEAR / BEARING WEAR. ALL OTHER ANALYSIS READINGS APPEAR NORMAL. INSPECT ANY MAGNETIC PLUG(S) FOR DEBRIS. RESAMPLE IN 250 HOURS TO MONITOR.

Sep 10, 2023	 No Action Required	13,600	Final Drive Rear Right	UNKNOWN HOURS ON THE OIL. ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Sep 10, 2023	 Monitor	13,600	Engine	UNKNOWN HOURS ON THE OIL. SODIUM IS ELEVATED. NO GLYCOL/WATER DETECTED. IRON IS ELEVATED AND MAY INDICATE CYLINDER WEAR. LEAD IS ELEVATED AND MAY INDICATE BEARING WEAR. CUT OPEN FILTER(S) AND INSPECT FOR DEBRIS. MONITOR FLUID LEVELS/USAGE. CHANGE OIL AND FILTER(S) AND RESAMPLE IN 250 HOURS TO MONITOR.
Sep 10, 2023	 No Action Required	13,600	Final Drive Rear Left	UNKNOWN HOURS ON THE OIL. ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Feb 22, 2023	 No Action Required	12,430	Final Drive Front Right	UNKNOWN HOURS ON THE OIL. ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Feb 22, 2023	 Monitor	12,430	Hydraulic System	UNKNOWN HOURS ON THE OIL. ALUMINUM IS ELEVATED AND MAY INDICATE PUMP WEAR. ALL OTHER ANALYSIS READINGS APPEAR NORMAL. CUT OPEN FILTER(S) AND INSPECT FOR DEBRIS. CHANGE OIL AND FILTER(S) AND RESAMPLE IN 250 HOURS TO MONITOR.
Feb 22, 2023	 Monitor	12,430	Engine	UNKNOWN HOURS ON THE OIL. SODIUM IS ELEVATED. NO GLYCOL/WATER DETECTED. IRON IS ELEVATED AND MAY INDICATE CYLINDER WEAR. LEAD IS ELEVATED AND MAY INDICATE BEARING WEAR. CUT OPEN FILTER(S) AND INSPECT FOR DEBRIS. RESAMPLE IN 250 HOURS TO MONITOR.

Feb 22, 2023	 No Action Required	12,430	Transmission Power Shift	UNKNOWN HOURS ON THE OIL. COPPER HAS INCREASED. COPPER ALONE USUALLY INDICATES COOLER CORE LEACHING (NO FAILURE) AND IS NOT NORMALLY WEAR OF BRONZE/BRASS PARTS. ALL OTHER ANALYSIS READINGS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Feb 22, 2023	 No Action Required	12,430	Differential Front	UNKNOWN HOURS ON THE OIL. ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Feb 22, 2023	 No Action Required	12,430	Final Drive Front Left	UNKNOWN HOURS ON THE OIL. ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Feb 22, 2023	 Monitor	12,430	Engine	UNKNOWN HOURS ON THE OIL. SODIUM IS ELEVATED. NO GLYCOL/WATER DETECTED. IRON IS ELEVATED AND MAY INDICATE CYLINDER WEAR. LEAD IS ELEVATED AND MAY INDICATE BEARING WEAR. CUT OPEN FILTER(S) AND INSPECT FOR DEBRIS. RESAMPLE IN 250 HOURS TO MONITOR.
Feb 22, 2023	 No Action Required	12,430	Differential Rear	UNKNOWN HOURS ON THE OIL. ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Feb 22, 2023	 No Action Required	12,430	Final Drive Rear Left	UNKNOWN HOURS ON THE OIL. ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Feb 22, 2023	 No Action Required	12,430	Final Drive Rear Right	UNKNOWN HOURS ON THE OIL. ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Jul 01, 2022	 No Action Required	11,178	Engine	UNKNOWN HOURS ON THE OIL. ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.

Feb 25, 2022	 No Action Required	10,417	Differential Rear	ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Feb 25, 2022	 No Action Required	10,417	Final Drive Front Right	ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Feb 25, 2022	 No Action Required	10,417	Final Drive Rear Left	ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Feb 25, 2022	 No Action Required	10,417	Final Drive Rear Right	ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Feb 25, 2022	 No Action Required	10,417	Final Drive Front Left	ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Feb 25, 2022	 No Action Required	10,417	Differential Front	ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Feb 25, 2022	 No Action Required	10,417	Hydraulic System	ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Feb 25, 2022	 No Action Required	10,417	Transmission Power Shift	ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Feb 25, 2022	 No Action Required	10,417	Engine	UNKNOWN HOURS ON THE OIL. ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Oct 27, 2021	 No Action Required	10,130	Engine	UNKNOWN HOURS ON THE OIL. ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.

Aug 20, 2021	 No Action Required	9,861	Differential Front	ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Aug 20, 2021	 No Action Required	9,864	Final Drive Rear Left	ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Aug 20, 2021	 No Action Required	9,864	Final Drive Front Left	ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Aug 20, 2021	 No Action Required	9,864	Final Drive Front Left	ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Aug 20, 2021	 No Action Required	9,864	Final Drive Rear Left	ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Aug 20, 2021	 No Action Required	9,864	Final Drive Rear Right	VISCOSITY IS ELEVATED FOR A 30WT. PLEASE CONFIRM WT. OF OIL BEING USED IN THIS COMPARTMENT. ALL OTHER ANALYSIS READINGS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Aug 20, 2021	 No Action Required	9,864	Final Drive Front Right	ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Aug 20, 2021	 No Action Required	9,864	Final Drive Rear Right	VISCOSITY IS ELEVATED FOR A 30WT. PLEASE CONFIRM WT. OF OIL BEING USED IN THIS COMPARTMENT. ALL OTHER ANALYSIS READINGS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Aug 18, 2021	 No Action Required	9,864	Hydraulic System	ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.

Aug 18, 2021	 No Action Required	9,864	Transmission Power Shift	ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Aug 18, 2021	 No Action Required	9,864	Transmission Power Shift	ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Aug 18, 2021	 No Action Required	9,864	Differential Rear	ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Aug 18, 2021	 No Action Required	9,864	Engine	ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Aug 18, 2021	 No Action Required	9,864	Hydraulic System	ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Aug 18, 2021	 No Action Required	9,864	Differential Rear	ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Aug 18, 2021	 No Action Required	9,864	Engine	ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Jun 14, 2021	 No Action Required	9,542	Engine	UNKNOWN HOURS ON THE OIL. ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Mar 05, 2021	 No Action Required	8,049	Transmission Power Shift	ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Mar 05, 2021	 No Action Required	8,049	Differential Front	UNKNOWN HOURS ON THE OIL. VISCOSITY IS ELEVATED FOR A 30WT. PLEASE CONFIRM WT. OF OIL BEING USED IN THIS COMPARTMENT. ALL OTHER ANALYSIS READINGS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.

Mar 05, 2021	 No Action Required	8,049	Final Drive Rear Left	UNKNOWN HOURS ON THE OIL. ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Mar 05, 2021	 No Action Required	8,049	Hydraulic System	UNKNOWN HOURS ON THE OIL. ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Mar 05, 2021	 No Action Required	8,049	Transmission Power Shift	ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Mar 05, 2021	 No Action Required	8,049	Differential Rear	UNKNOWN HOURS ON THE OIL. VISCOSITY IS ELEVATED FOR A 30WT. PLEASE CONFIRM WT. OF OIL BEING USED IN THIS COMPARTMENT. ALL OTHER ANALYSIS READINGS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Mar 05, 2021	 No Action Required	8,049	Final Drive Rear Right	UNKNOWN HOURS ON THE OIL. VISCOSITY IS ELEVATED FOR A 30WT. PLEASE CONFIRM WT. OF OIL BEING USED IN THIS COMPARTMENT. ALL OTHER ANALYSIS READINGS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Mar 05, 2021	 No Action Required	8,049	Final Drive Rear Right	UNKNOWN HOURS ON THE OIL. VISCOSITY IS ELEVATED FOR A 30WT. PLEASE CONFIRM WT. OF OIL BEING USED IN THIS COMPARTMENT. ALL OTHER ANALYSIS READINGS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Mar 05, 2021	 No Action Required	8,049	Differential Rear	UNKNOWN HOURS ON THE OIL. VISCOSITY IS ELEVATED FOR A 30WT. PLEASE CONFIRM WT. OF OIL BEING USED IN THIS COMPARTMENT. ALL OTHER ANALYSIS READINGS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Mar 05, 2021	 No Action Required	8,049	Final Drive Front Left	UNKNOWN HOURS ON THE OIL. ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.

Mar 05, 2021	 No Action Required	8,049	Hydraulic System	UNKNOWN HOURS ON THE OIL. ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Mar 05, 2021	 No Action Required	8,049	Differential Front	UNKNOWN HOURS ON THE OIL. VISCOSITY IS ELEVATED FOR A 30WT. PLEASE CONFIRM WT. OF OIL BEING USED IN THIS COMPARTMENT. ALL OTHER ANALYSIS READINGS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Mar 05, 2021	 No Action Required	8,049	Final Drive Front Right	UNKNOWN HOURS ON THE OIL. VISCOSITY IS ELEVATED FOR A 30WT. PLEASE CONFIRM WT. OF OIL BEING USED IN THIS COMPARTMENT. ALL OTHER ANALYSIS READINGS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Mar 05, 2021	 No Action Required	8,049	Engine	UNKNOWN HOURS ON THE OIL. ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Mar 05, 2021	 No Action Required	8,049	Final Drive Rear Left	UNKNOWN HOURS ON THE OIL. ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Mar 05, 2021	 No Action Required	8,049	Final Drive Front Left	UNKNOWN HOURS ON THE OIL. ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Mar 05, 2021	 No Action Required	8,049	Engine	UNKNOWN HOURS ON THE OIL. ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Mar 05, 2021	 No Action Required	8,049	Final Drive Front Right	UNKNOWN HOURS ON THE OIL. VISCOSITY IS ELEVATED FOR A 30WT. PLEASE CONFIRM WT. OF OIL BEING USED IN THIS COMPARTMENT. ALL OTHER ANALYSIS READINGS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.

Nov 06, 2020	 No Action Required	8,552	Differential Rear	ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Nov 06, 2020	 No Action Required	8,552	Hydraulic System	ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Nov 06, 2020	 No Action Required	8,552	Transmission Power Shift	ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Nov 06, 2020	 No Action Required	8,552	Final Drive Front Right	ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Nov 06, 2020	 No Action Required	8,552	Final Drive Rear Right	ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Nov 06, 2020	 No Action Required	8,552	Final Drive Front Left	ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Nov 06, 2020	 No Action Required	8,552	Final Drive Rear Left	ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Nov 06, 2020	 No Action Required	8,552	Differential Front	VISCOSITY IS ELEVATED FOR A 30WT. PLEASE CONFIRM WT. OF OIL BEING USED IN THIS COMPARTMENT. ALL OTHER ANALYSIS READINGS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Nov 06, 2020	 No Action Required	8,552	Engine	ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Aug 21, 2020	 No Action Required	8,106	Transmission Power Shift	ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.

Aug 21, 2020	 No Action Required	8,106	Differential Rear	ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Aug 21, 2020	 No Action Required	8,106	Final Drive Front Right	UNKNOWN HOURS ON THE OIL. ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Aug 21, 2020	 No Action Required	8,106	Differential Front	UNKNOWN HOURS ON THE OIL. ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Aug 21, 2020	 No Action Required	8,106	Final Drive Front Left	UNKNOWN HOURS ON THE OIL. ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Aug 21, 2020	 No Action Required	8,106	Hydraulic System	ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Aug 21, 2020	 Monitor	8,106	Engine	LEAD IS ELEVATED AND MAY INDICATE BEARING WEAR. ALL OTHER ANALYSIS READINGS APPEAR NORMAL. CUT OPEN FILTER(S) AND INSPECT FOR DEBRIS. RESAMPLE IN 250 HOURS TO MONITOR.
Aug 21, 2020	 No Action Required	8,106	Final Drive Rear Left	UNKNOWN HOURS ON THE OIL. ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Aug 21, 2020	 No Action Required	8,106	Final Drive Rear Right	UNKNOWN HOURS ON THE OIL. ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
May 20, 2020	 No Action Required	7,592	Transmission Power Shift	ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.

May 20, 2020	 No Action Required	7,592	Final Drive Rear Right	UNKNOWN HOURS ON THE OIL. ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
May 20, 2020	 Monitor	7,592	Final Drive Rear Left	UNKNOWN HOURS ON THE OIL. IRON IS ELEVATED AND MAY INDICATE GEAR / BEARING WEAR. ALL OTHER ANALYSIS READINGS APPEAR NORMAL. INSPECT ANY MAGNETIC PLUG(S) FOR DEBRIS. RESAMPLE IN 250 HOURS TO MONITOR.
May 20, 2020	 No Action Required	7,592	Final Drive Front Right	UNKNOWN HOURS ON THE OIL. ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
May 20, 2020	 No Action Required	7,592	Differential Rear	UNKNOWN HOURS ON THE OIL. ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
May 20, 2020	 No Action Required	7,592	Final Drive Front Left	UNKNOWN HOURS ON THE OIL. ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
May 20, 2020	 No Action Required	7,592	Differential Front	UNKNOWN HOURS ON THE OIL. ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
May 20, 2020	 Monitor	7,592	Engine	UNKNOWN HOURS ON THE OIL. SODIUM IS ELEVATED. NO GLYCOL/WATER DETECTED. LEAD IS ELEVATED AND MAY INDICATE BEARING WEAR. CUT OPEN FILTER(S) AND INSPECT FOR DEBRIS. RESAMPLE IN 250 HOURS TO MONITOR.
May 20, 2020	 No Action Required	7,592	Hydraulic System	UNKNOWN HOURS ON THE OIL. ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.

Jan 08, 2020	 Monitor	6,804	Transmission Power Shift	IRON IS ELEVATED AND MAY INDICATE CLUTCH PLATES WEAR. ALL OTHER ANALYSIS READINGS APPEAR NORMAL. CUT OPEN FILTER(S) AND INSPECT FOR DEBRIS. RESAMPLE IN 250 HOURS TO MONITOR.
Jan 08, 2020	 No Action Required	6,804	Final Drive Front Right	VISCOSITY IS ELEVATED FOR A 30 WEIGHT OF OIL. PLEASE VERIFY THE WEIGHT OF OIL BEING USED. ALL OTHER ANALYSIS READINGS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Jan 08, 2020	 No Action Required	6,804	Final Drive Rear Left	ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Jan 08, 2020	 Action Required	6,804	Engine	UNKNOWN HOURS ON THE OIL. SODIUM LEVEL IS HIGH. NO GLYCOL/WATER DETECTED AND MAY BE BURNING OFF IN THE COMBUSTION PROCESS. IRON IS ELEVATED AND MAY INDICATE CYLINDER WEAR. CUT OPEN FILTER(S) AND INSPECT FOR DEBRIS. INSPECT FOR SOURCE OF WATER ENTRY INTO THE SYSTEM. RESAMPLE IN 100 HOURS TO MONITOR.
Jan 08, 2020	 No Action Required	6,804	Final Drive Front Left	ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Jan 08, 2020	 No Action Required	6,804	Final Drive Rear Right	ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Jan 08, 2020	 No Action Required	6,804	Differential Rear	ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Jan 08, 2020	 No Action Required	6,804	Hydraulic System	ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Jan 08, 2020	 No Action Required	6,804	Differential Front	ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.

Nov 08, 2019	 Monitor	6,476	Engine	UNKNOWN HOURS ON THE OIL. IRON IS ELEVATED AND MAY INDICATE CYLINDER WEAR. ALL OTHER ANALYSIS READINGS APPEAR NORMAL. CUT OPEN FILTER(S) AND INSPECT FOR DEBRIS. RESAMPLE IN 250 HOURS TO MONITOR.
Sep 10, 2019	 No Action Required	6,140	Transmission Power Shift	ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Sep 10, 2019	 No Action Required	6,140	Differential Rear	ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Sep 10, 2019	 No Action Required	6,140	Final Drive Rear Left	ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Sep 10, 2019	 No Action Required	6,140	Hydraulic System	ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Sep 10, 2019	 Monitor	6,140	Engine	IRON IS ELEVATED AND MAY INDICATE CYLINDER WEAR. ALL OTHER ANALYSIS READINGS APPEAR NORMAL. CUT OPEN FILTER(S) AND INSPECT FOR DEBRIS. RESAMPLE IN 250 HOURS TO MONITOR.
Sep 10, 2019	 No Action Required	6,140	Final Drive Front Left	ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Sep 10, 2019	 No Action Required	6,140	Final Drive Front Right	ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Sep 10, 2019	 No Action Required	6,140	Differential Front	ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.

Sep 10, 2019	 No Action Required	6,140	Final Drive Rear Right	ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
May 24, 2019	 No Action Required	6,123	Final Drive Rear Right	ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
May 24, 2019	 No Action Required	6,123	Differential Rear	ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
May 24, 2019	 No Action Required	6,123	Differential Front	ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
May 24, 2019	 No Action Required	6,123	Hydraulic System	ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
May 24, 2019	 No Action Required	6,123	Final Drive Rear Left	ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
May 24, 2019	 No Action Required	6,123	Transmission Power Shift	ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
May 24, 2019	 No Action Required	6,123	Final Drive Front Left	ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
May 24, 2019	 No Action Required	6,123	Final Drive Front Right	ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
May 24, 2019	 Monitor	6,123	Engine	IRON IS ELEVATED AND MAY INDICATE CYLINDER WEAR. ALL OTHER ANALYSIS READINGS APPEAR NORMAL. CUT OPEN FILTER(S) AND INSPECT FOR DEBRIS. RESAMPLE IN 250 HOURS TO MONITOR.

Mar 02, 2019	 No Action Required	7,128	Final Drive Front Left	ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Mar 02, 2019	 No Action Required	7,128	Final Drive Front Right	ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Mar 02, 2019	 No Action Required	7,128	Differential Front	ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Mar 02, 2019	 Monitor	7,128	Engine	SODIUM LEVEL IS HIGH. NO GLYCOL/WATER DETECTED AND MAY BE BURNING OFF IN THE COMBUSTION PROCESS. ALL OTHER ANALYSIS READINGS APPEAR NORMAL. MONITOR FLUID LEVELS/USAGE RESAMPLE IN 250 HOURS TO MONITOR.
Mar 02, 2019	 Monitor	7,128	Hydraulic System	PARTICLE COUNT IS ELEVATED. ALL OTHER ANALYSIS READINGS APPEAR NORMAL. CUT OPEN FILTER(S) AND INSPECT FOR DEBRIS. CHANGE OIL AND FILTER(S) AND RESAMPLE IN 250 HOURS TO MONITOR.
Mar 02, 2019	 No Action Required	7,128	Differential Rear	ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Mar 02, 2019	 No Action Required	7,128	Final Drive Rear Left	ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Mar 02, 2019	 No Action Required	7,128	Transmission Power Shift	ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Mar 02, 2019	 No Action Required	7,128	Final Drive Rear Right	ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.

PSP (14 Records)

Issue Date	End Date	PSP No.	Description	Status
Jul 08, 2019	Dec 31, 2019	PS46188	Updating product link pl121 satellite ra	Completed
May 09, 2023	May 31, 2025	PS55074	Replacing the water lines elbow on certa	Expired
Mar 09, 2023	Oct 31, 2023	PS54720	Reworking the park brake valve on certai	Expired
Jun 27, 2022	Jul 31, 2022	PS54360	Replacing the def pump on certain caterp	Expired
May 11, 2022	Mar 31, 2024	PS54820	Replacing the fuel tank on certain 988k	Expired
Jun 02, 2021	Jun 30, 2023	PS54609	Reworking the alternator ground cable on	Expired
Dec 12, 2019	Dec 31, 2021	PS54224	Replacing the ride control tube assembly	Expired
Dec 06, 2019	Apr 30, 2021	PS46233	Replacing the current ride control check	Expired
Jun 27, 2019	Jun 30, 2021	PS54088	Replacing the engine oil hoses on certai	Expired
Jan 15, 2019	Aug 31, 2023	PS53847	Replacing 516-9693 cylinder liners on ce	Expired
Nov 01, 2018	Nov 30, 2020	PS53884	Reworking front frame welds on certain 9	Expired
Apr 09, 2018	Mar 31, 2020	PS53721	Product support program replacing the 36	Expired
Nov 29, 2017	Nov 30, 2019	PS53640	Reworking the fuel pickup tube on certai	Expired
Jun 23, 2017	Jun 30, 2019	PS53495	Replacing nrs coolers on certain 824k/83	Expired

CONFIGURATION (35 Records)

Configuration Code	Description
3119323	FILM, PCS
3450538	LIGHTS, STANDARD
3463859	RADIO, CB (READY)
3463863	VISOR, CAB
3463864	MIRRORS, STANDARD
3474900	LIFT, STANDARD 2V
3474940	ENGINE, BRAKE
3475028	FENDERS, ROADING
3475045	DECALS, ANSI
3475105	NO SOUND SUPPRESSION
3475108	FUEL TANK, FAST FILL
3475246	AXLES, STANDARD
3608191	CAMERA, REAR VISION
3672710	LOADER, STANDARD
3675432	COOLER, AXLE OIL
3675610	LUBRICATION, STANDARD
3739357	HYDRAULIC ARRANGEMENT, CANADA
3746450	STARTING, COLD WEATHER
3747404	HEATER, ENGINE COOLANT, 120V
3754687	CAB GLASS, STANDARD
3761572	OIL CHANGE SYSTEM, HIGH SPEED
3764801	CAB DOOR, SLIDING WINDOW (LH)
3766937	STEERING, SECONDARY
3779320	PRECLEANER, TURBINE
3814540	SEAT BELT, 3", 2-POINT, MINDER
3832164	PRECLEANER, STANDARD
3964286	TIRES, MX L4
4333843	FUEL LINES, HEATED
4351139	PRODUCT LINK PL321
4351144	HYDRAULIC OIL, STD
4517913	TRANSPORT

4521394	RADIO GP
4675822	CPM PAYLOAD WEIGHING READY
4696682	SEAT, HTD & VNT
4783882	RIDE CONTROL