

Serial Number: BXY04752 Product Family: LARGE WHEEL LOADER

Model: 988H SMU / Hours: Year: 2012

SERVICE HISTORY (150 Records)

Invoice Date	Invoice Type	SMU / Hours	Description	Notes
Jun 24, 2025	Service	19,203	Travel To/from Machine	Loc:250 e santa ana ave bloomington
Jun 24, 2025	Service	19,203	Troubleshoot Steering System	Customer complaint: Will not steer to the left or right. ** Cause of failure: Steering pump. *** Repair process comments: 2624 located machine and verified customer Complaint. connected gauges into Steering/hydraulic systems. Found no pump standby pressure. found adequate Pilot pressure. Returned to machine with portapower. plumbed into Pump flow compensator. with compensator Pressurized pump does not upstroke. Recommend pulling pump for inspection. there is Lots of air in the system, recommend inspecting Suction line to steering pump for obstruction. Please see quote :will not steer to the left or **get ser# **
Jun 24, 2025	Service	19,203	Perform Ta1 Inspection	Performed field machine inspect
Dec 13, 2024	Service	19,200	Perform Pm 1	Repair process comments: Located unit. visual walk through inspection. Turned on unit. performed hazardous status Report. took sos engine oil sample. took sos Hydraulic oil sample. took sos coolant took sos Front and rear differential oil sample. took sos Transmission oil sample. greased all grease Ports. blew out dust from cooler and radiator. Performed a brake test. checked cylinders lube as Needed. hydraulic level was at required level. Checked level of front and rear differential Oils. differential set to required level. engine Oil at required level. coolant level low in Reservoir tank advised tech on site. turned unit On. performed a ta1 inspection. finalized pm Agreement. .

Dec 13, 2024	Service	19,200	Troubleshoot Fault Code	Customer complaint: Loss of steering machine will not move left or Right Cause of failure: Steeing pump failure Resultant damage: Steering pump damaged internall. Repair process comments: 11-25-24 Arrived at site regarding concern.pulled a product Status report. confirmed concern by attempting to Steer machine. machine does not move. right or Left. used pressure port on steering pump to Check pressure. pressure reading was zero. no Pressure was read. inspected engine oil filter. Found large peices of brass and metal debrise in Filter after cutting filter open. with this Finding and zero pressure reading at pump i will Recommend replacing ad flushing hydraulis sytem Including tank customer requested a quote of pump Repacement and steering system hydraulic oil Flush. Not turning right nor left
Dec 13, 2024	Service	19,200	Travel To/from Machine	Ramco sun valley
Nov 04, 2024	Parts			
Sep 20, 2024	Service	18,961	Travel To/from Machine	Customer complaint: Travel Travel
Sep 20, 2024	Service	18,961	Replace Seat Belt	Customer complaint: Replace seat belt Resultant damage: Replaced seat belt Repair process comments: Date: 09-17-24 hours: Tech:2864 Replace seat belt Contacted customer and located equipment. traveled To unit. sign in to yard. waited for unit to be Available. performed hazard analyses. angled seat To accuses both sides of seat belt. removed both Sides of seat belt. installed new seat belt. Marked and installed exploration tags. notified Customer of job completion. Replace seat belt
Sep 04, 2024	Parts			

Sep 03, 2024	Service	18,818	Perform Pm 4	Repair process comments: Traveled to unit location. verified unit using Serial. performed hazard analysis. started unit To reach idle temperature. performed product Status report. performed ta 1 inspection. leak on Hydraulic pump hose. took engine oil sample. Took hydraulic oil sample. took trans oil sample. Took front and rear differential oil samples. Took coolant sample shut unit off. cleaned unit Fuel strainer. dropped belly pan to reach oil Drain plug. noticed large oil leak coming from Engine oil pan. was instructed to notifie my Coordinator for oil pan gasket and bolts to be Replaced. removed and replaced in line fuel Filter. drained unit engine oil. drained Transmission oil. removed and replaced engine oil Filter. removed and replaced fuel water Separator. removed and replaced all three Hydraulic filters. base of one of the filters was Stripped needed to be replaced. removed and Replaced fuel filters. noticed air filter Housing damaged. recommend replacing housing. Removed and replaced primary and secondary air Filters. removed and replaced both cab filters. Greased all grease fittings .closed unit engine Oil drain plug. after oil pan gasket was Rereplaced. filled unit engine oil to fill mark On dip stick (61 qt's of 15w-40). turned unit on To check for leaks. closed belly pan. performed Product status report. contacted customer to Inform of job completion. .
Sep 03, 2024	Service	18,818	Travel To/from Machine	Travel
Aug 07, 2024	Parts			
Jul 27, 2024	Service	18,526	Perform Pm 1	Pm includes: air filter indicator inspect engine, Battery clean, brake accumulator check, braking System test, differential check fluid level Front, differential check fluid level rear, drive Shaft lubricate spline, engine oil take & analyze S-o-s from, final drive check fluid level front, Final drive check fluid level rear, pm 1 perform, V-belt(s) inspect. Customer complaint: Pm 1 requested Repair process comments: Performed pm 1 Ordered parts for pm 1 service. traveled to unit Location. verified unit using serial. performed Hazard analysis. started unit to reach idle Temperature. performed product status report. Performed ta 1 inspection. noticed leaks on Hydraulic filter hose. hydraulic leak coming from Above rear diff. missing fuel cap. re barb in Both front tires. took engine oil sample. took Hydraulic oil sample. took trans oil sample. took Front and rear differential oil samples. took Front right and left hub oil sample. took rear Right and left hub oil samples. took coolant Sample. blew out radiator. contacted customer to Inform of job completion. .
Jul 27, 2024	Service	18,526	Travel To/from Machine	Customer complaint: Travel Travel

Jun 25, 2024	Service	18,229	Travel To/from Machine	Customer complaint: Travel Travel
Jun 25, 2024	Service	18,229	Perform Pm 2	Pm includes: air filter element replace primary, Air filter element replace secondary, air filter Indicator inspect engine, battery clean, brake Accumulator check, braking system test, Differential check fluid level front, Differential check fluid level rear, differential Take & analyze s-o-s from fluid level front, Differential take & analyze s-o-s from fluid Level rear, drive shaft lubricate spline, engine Coolant take & analyze s-o-s from level one, Engine oil & filter replace, engine oil take & Analyze s-o-s from, final drive check fluid level Front, final drive check fluid level rear, final Drive take & analyze s-o-s from front, final Drive take & analyze s-o-s Customer complaint: Pm 2 requested Resultant damage: Pm 2 performed Repair process comments: Looked up and ordered parts for pm 2 service. Traveled to unit location. verified unit using Serial. performed hazard analysis. started unit To reach idle temperature. performed product Status report. performed ta 1 inspection. noticed Leaks on hydraulic filter hose. leak on hydraulic Pump hose. took engine oil sample. took Hydraulic oil sample. took trans oil sample. took Front and rear differential oil samples. took all Four hub oil samples. took coolant sample shut Unit off. cleaned unit fuel strainer. dropped Belly pan to reach oil drain plug. drained unit Engine oil. removed and replaced engine oil Filter. removed and replaced fuel water separator Filter. removed and replaced fuel filters. Removed and replaced primary and secondary air Filters. removed and replaced both cab filters. Removed and replaced hydraulic filter. removed And replaced trans filter. greased all grease Fittings .closed unit engine oil drain plug. Filled unit engine oil to fill mark on dip stick (65 qt's of 15w-40). turned unit on to check for Leaks. closed belly pan. hydraulic oil was low. Topped of hyraulic oil. performed product status Report. contacted customer to inform of job Completion. .
Jun 03, 2024	Service	17,946	Travel To/from Machine	Customer complaint: Travel Ttravel

Jun 03, 2024	Service	17,946	Perform Pm 1	Pm includes: air filter indicator inspect engine, Battery clean, brake accumulator check, braking System test, differential check fluid level Front, differential check fluid level rear, drive Shaft lubricate spline, engine oil take & analyze S-o-s from, final drive check fluid level front, Final drive check fluid level rear, pm 1 perform, V-belt(s) inspect. Customer complaint: Perform pm 1 Repair process comments: Perform pm 1 Ordered parts for pm 1 service. traveled to unit Location. verified unit using serial. performed Hazard analysis. started unit to reach idle Temperature. performed product status report. Performed ta 1 inspection. performed function Test. noticed leaks on hydraulic filter hose. Took engine oil sample. took hydraulic oil Sample. took trans oil sample. took front and Rear differential oil samples. took front right And left hub oil sample. took rear right and left Hub oil samples. took coolant sample shut unit Off. cleaned unit fuel strainer. cleaned out Radiator contacted customer to inform of job Completion. .
May 16, 2024	Service	17,863	Troubleshoot Exhaust Gas	Customer complaint: Check for exhaust leak. Cause of failure: None found Resultant damage: Cab door seal torn Repair process comments: 5-6-24 Arrived at location. located machine. machine was Being used. on site mechanic stopped machine to Inspect. started machine and checked engine Compartment for evidence of an exhaust leak. none Fund. checked engine exhaust manifold. did not Have any leaks. checked the turbo system and Plumbing no exhaust leaks detected. exhaust System in the engine compartment is separtae from Cab. found engine oil leak at the rear valve Cover area near the valve cover breather Assembly. found hydraulic oil leak at front right Side of machine below the cab. these leaks can Produce strong odors Inspected the cab area and door seals. performed The procedure to pressurize the cab using the Hvac system. found left side door seal to be Torn. and right side door to have wiring coming From the inside of the cab to the antenna. Indicating the cab is not completely sealed. also Found the cab hvac system in need of service the Evaporator is not draining correctly water is Building up in the hvac unit. producing a strong Damp smell. also found stronge odor of hydraulic Oil near front left side of cab. but not in cab. Advised customer that seals for doors had to be Repaired to obtain a completely sealed cab. cab Air filters are in good shape but can possibly Be upgraded to a premium filter that will capture Outside smells. customer did not advise if he Would like to replace seals. T/s exhaust leak in cab

Apr 24, 2024	Service	17,664	Perform Pm 3	Customer complaint: Performed pm 3 Repair process comments: Perform pm 3 Looked up and ordered parts for pm 3 service. Traveled to unit location. verified unit using Serial. performed hazard analysis. started unit To reach idle temperature. performed product Status report. performed ta 1 inspection. leak on Hydraulic pump hose. took engine oil sample. Took hydraulic oil sample. took trans oil sample. Took front and rear differential oil samples. Took coolant sample shut unit off. cleaned unit Fuel strainer. dropped belly pan to reach oil Drain plug. noticed large oil leak coming from Engine oil pan. was instructed to notifie my Coordinator for oil pan gasket and bolts to be Replaced. removed and replaced in line fuel Filter. drained unit engine oil. drained Transmission oil. removed and replaced engine oil Filter. removed and replaced fuel water Separator. removed and replaced all three Hydraulic filters. base of one of the filters was Stripped needed to be replaced. removed and Replaced fuel filters. noticed air filter Housing damaged. recommend replacing housing. Removed and replaced primary and secondary air Filters. removed and replaced both cab filters. Greased all grease fittings .closed unit engine Oil drain plug. after oil pan gasket was Rereplaced. filled unit engine oil to fill mark On dip stick (61 qt's of 15w-40). turned unit on To check for leaks. closed belly pan. performed Product status report. contacted customer to Inform of job completion. .
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Apr 24, 2024	Service	17,664	Travel To/from Machine	Travel
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Apr 19, 2024	Service	17,668	Remove & Install Engine	Customer complaint: Engine oil leak through the oil pan gasket Cause of failure: Damaged gasket Resultant damage: No resultant damage Repair process comments: Date: 04-11-2024, tech: 3638,2368 There was an engine oil leak at the front area of The oil pan. the customer provided the oil pan Gasket, the plate 9n-3167 that goes between the Oil pan and the cylinder block, and new bolts. The gasket between the plate and the cylinder Block was not on site, so it was ordered and the Customer picked up from the store. The oil pan was removed from the engine block. the Oil pump was removed in order to remove the Plate. the plate was removed from the cylinder Block. remains of the old gasket were removed From the oil pan and the cylinder block. Date: 04-12-2024, tech: 3638 A new plate with new gasket was installed. the new Gasket with new the new part number 569-8603 was Installed between the cylinder block and the Plate. the oil pump was installed with new seal o Rings and new bolts. thread lock was applied to The bolts used on the oil pump and the bolts that Hold tight the plate. the oil pan was installed With new gasket, a new gasket with the former Part number 353-6065 was used between the plate And the oil pan. new oil was used to hold the oil Pan. Engine oil was added to the engine and the engine Was started. inspection was performed during the Engine was running to check for leaks. no leaks Was observed. Replace gasket on oil pan
Apr 19, 2024	Service	17,668	Travel To/from Machine	Travel
Mar 19, 2024	Service	17,597	Travel To/from Machine	Repair process comments: Date: 03-14-24 tech: 3219 Travel to machine sun valley Travel to sun valley
Mar 19, 2024	Service	17,597	Perform Ta1 Inspection	Repair process comments: Date: 03-14-24 tech: 3219 Ta1 inspection Perform ta1
Mar 19, 2024	Service	17,597	Install Tilt Cyl	Repair process comments: Date: 03-14-24 tech: 3219 They started by taking the status report and then The tilt cylinder was inspected and it was found That it was broken from the base where the rod Pin is connected. and i am pending what the Customers will decide, whether to repair it or Put it new. Install tilt cylinder
Feb 15, 2024	Service	17,463	Travel To/from Machine	Travel

Feb 15, 2024	Service	17,463	Perform Pm 1	Customer complaint: Pm 1 required Resultant damage: Pm 1 performed Repair process comments: Ordered parts for pm 1 service. traveled to unit Location. verified unit using serial. performed Hazard analysis. started unit to reach idle Temperature. performed product status report. Performed ta 1 inspection. noticed leaks on Hydraulic filter hose. took engine oil sample. Took hydraulic oil sample. took trans oil sample. Took front and rear differential oil samples. Took front right and left hub oil sample. took Rear right and left hub oil samples. took coolant Sample shut unit off. cleaned unit fuel strainer. Noticed large oil leak coming from engine oil Pan. notified customer. noticed bolt missing From engine oil pan. recommend replacing oil pan Gasket. replacing missing bolts. contacted Customer to inform of job completion.
Jan 16, 2024	Parts			
Jan 04, 2024	Service	17,247	Travel To/from Machine	Customer complaint: Travel Travel
Jan 04, 2024	Service	17,247	Additional Charges Hoses & Lines	Repair process comments: Parts order per customer request Per customer to add the hose to this work order No labor only parts

Jan 04, 2024	Service	17,247	Perform Pm 2	Pm includes: air filter element replace primary, Air filter element replace secondary, air filter Indicator inspect engine, battery clean, brake Accumulator check, braking system test, Differential check fluid level front, Differential check fluid level rear, differential Take & analyze s-o-s from fluid level front, Differential take & analyze s-o-s from fluid Level rear, drive shaft lubricate spline, engine Coolant take & analyze s-o-s from level one, Engine oil & filter replace, engine oil take & Analyze s-o-s from, final drive check fluid level Front, final drive check fluid level rear, final Drive take & analyze s-o-s from front, final Drive take & analyze s-o-s Customer complaint: Pm 2 requested Resultant damage: Performed pm 2 Repair process comments: Looked up and ordered parts for pm 2 service. Traveled to unit location. verified unit using Serial. performed hazard analysis. started unit To reach idle temperature. performed product Status report. performed ta 1 inspection. noticed Leaks on hydraulic filter hose. leak on hydraulic Pump hose. took engine oil sample. took hydraulic Oil sample. took trans oil sample. took front and Rear differential oil samples. took coolant Sample shut unit off. cleaned unit fuel strainer. Dropped belly pan to reach oil drain plug. Noticed large oil leak coming from engine oil Pan. notified customer . was told to look up Parts and availability. noticed bolt missing From engine oil pan. recommend replacing oil pan Gasket. replacing missing bolts. drained unit Engine oil. removed and replaced engine oil Filter. removed and replaced fuel water Separator. removed and replaced fuel filters. Removed and replaced in line fuel filter. noticed Air filter cover missing. noticed air filter Housing damaged. recommend replacing housing. Removed and replaced primary and secondary air Filters. removed and replaced both cab filters. Greased all grease fittings .closed unit engine Oil drain plug. filled unit engine oil to fill Mark on dip stick (65 qt's of 15w-40). turned Unit on to check for leaks. closed belly pan. Performed product status report. contacted Customer to inform of job completion.
Nov 08, 2023	Service	17,015	Travel To/from Machine	Repair process comments: 10-23-23 Travel to site Travel to shop Sun valley

Nov 08, 2023	Service	17,015	Troubleshoot Bucket	Customer complaint: Bucket does not dump sometimes Cause of failure: Dump solenoid voltage above normal fault Resultant damage: Solenoid needs to be replaced and calibration Performed Repair process comments: 10-23-23 Arrived at site. located machine. spoke with Customer about concern. checked for hazards Around machine. pulled a product status report. Found two faults relative to customer concern. 356-5 dump solenoid #1 current below normal was Logged and 499-13 implement hydraulic pump Solenoid out of calibration. followed Troubleshooting to repair dump sloenoid fault. Checked for software updates and found all Software to be up to date. jumped connector at Harness and fault changed to 356-6 fault Indicating that the condition of the wire was Good back to the implement ecm. also while jumper Was installed i moved wiring harness at machine Pivot area and attempted to create the fault. Wiring harness has a small area of concerne where It should be secure but is loose. wiggled and Tugged on wiring and could not cause the fault to Beome active. attempted to perform a calibration For the valves and it passed. attempted to Perform a calibration for the implement pump Solenoid and it did not pass. will recommend Replacing solenoids on the dump valve and on the Implement pump. will return when parts arrive Update customer. 10-25-23 Arrived at site. machine for repair. replaced Solenoids for dump and rackback (undump) and Solenoid at implement pump. performed calibration For implement functions. performed calibration For implement pump solenoid. cleand area and Began a series of function test. check machine For half an hour machine dump function did not Fail advised customer to test drive in real world Use with a load in the bucket. machine performed Normally. at the end of the day machine began to Have similar issue but improved. buck would get Stuck. customer reported to me while in use i was Able to see how the machine was being operated And when it failed. advised customer that further Inspection for the system would be needed. 10-26-23 Arrived at site secured machine from customer. Inspected machine for new hazards none Found.downloaded electrical schematic. located The position of the implement ecm. indentified Wire number and pin location. removed right side Platform covers to gain access to implement ecm. Disconnected connector and inserted pin tester Pigtail at pin 51 and 52 and at the other end i Disconnected the dump solenoid connector and Performed a continuity test to verify the Integrity of the wire. high ressisance reading Of 22 ohms was detected. knowing this i continued And planned on testing each connection junction That the wire was in. i started at the front of The machine where i suspected and which is a high Fail location for harnesses. i tested this end of The harness and found high ressisance at 17 Ohms. using multimeter i was able to find the Location where the wire had broken inside the Harness. will recommend replacing the entire Harness. this area has a lot of movement and Vibration cutting into the harness loom would Weekend the harness
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23 Removed wiring harness from pivot point of cab to Main control valve. after removal removed all the Mounting loops and used them as reference for Positioning on the new harness. used the old Harness to find correct routing of harness. routed Harness on machine and verified all connectors Locked and engaged. removed hydraulic lines on Left side to gain access to some connectors. Advised customer i will have to return. to secure The harness. calibrate the solenoids and do a Function test. 10-30-23 Finished attaching harness using the harness loops And reconnected the hydraulic oil steel tube on Left side of machine. Performed a calibration of the solenoids and Calibration of the controls both passed Successfully performed a functional test Operating all functions for 30 minutes. cleared All faults associated with the removal of the Harness. advised customer machine was back in Service. Bucket not dumping

Nov 08, 2023	Service	17,015	Troubleshoot Bucket	Customer complaint: Bucket does not dump sometimes Cause of failure: Dump solenoid voltage above normal fault Resultant damage: Solenoid needs to be replaced and calibration Performed Repair process comments: 10-23-23 Arrived at site. located machine. spoke with Customer about concern. checked for hazards Around machine. pulled a product status report. Found two faults relative to customer concern. 356-5 dump solenoid #1 current below normal was Logged and 499-13 implement hydraulic pump Solenoid out of calibration. followed Troubleshooting to repair dump sloenoid fault. Checked for software updates and found all Software to be up to date. jumped connector at Harness and fault changed to 356-6 fault Indicating that the condition of the wire was Good back to the implement ecm. also while jumper Was installed i moved wiring harness at machine Pivot area and attempted to create the fault. Wiring harness has a small area of concerne where It should be secure but is loose. wiggled and Tugged on wiring and could not cause the fault to Beome active. attempted to perform a calibration For the valves and it passed. attempted to Perform a calibration for the implement pump Solenoid and it did not pass. will recommend Replacing solenoids on the dump valve and on the Implement pump. will return when parts arrive Update customer. 10-25-23 Arrived at site. machine for repair. replaced Solenoids for dump and rackback (undump) and Solenoid at implement pump. performed calibration For implement functions. performed calibration For implement pump solenoid. cleand area and Began a series of function test. check machine For half an hour machine dump function did not Fail advised customer to test drive in real world Use with a load in the bucket. machine performed Normally. at the end of the day machine began to Have similar issue but improved. buck would get Stuck. customer reported to me while in use i was Able to see how the machine was being operated And when it failed. advised customer that further Inspection for the system would be needed. 10-26-23 Arrived at site secured machine from customer. Inspected machine for new hazards none Found.downloaded electrical schematic. located The position of the implement ecm. indentified Wire number and pin location. removed right side Platform covers to gain access to implement ecm. Disconnected connector and inserted pin tester Pigtail at pin 51 and 52 and at the other end i Disconnected the dump solenoid connector and Performed a continuity test to verify the Integrity of the wire. high ressisance reading Of 22 ohms was detected. knowing this i continued And planned on testing each connection junction That the wire was in. i started at the front of The machine where i suspected and which is a high Fail location for harnesses. i tested this end of The harness and found high ressisance at 17 Ohms. using multimeter i was able to find the Location where the wire had broken inside the Harness. will recommend replacing the entire Harness. this area has a lot of movement and Vibration cutting into the harness loom would Weekend the harness
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23 Removed wiring harness from pivot point of cab to Main control valve. after removal removed all the Mounting loops and used them as reference for Positioning on the new harness. used the old Harness to find correct routing of harness. routed Harness on machine and verified all connectors Locked and engaged. removed hydraulic lines on Left side to gain access to some connectors. Advised customer i will have to return. to secure The harness. calibrate the solenoids and do a Function test. 10-30-23 Finished attaching harness using the harness loops And reconnected the hydraulic oil steel tube on Left side of machine. Performed a calibration of the solenoids and Calibration of the controls both passed Successfully performed a functional test Operating all functions for 30 minutes. cleared All faults associated with the removal of the Harness. advised customer machine was back in Service. Bucket not dumping

Nov 08, 2023	Service	17,015	Travel To/from Machine	Repair process comments: 10-23-23 Travel to site Travel to shop Sun valley
Oct 31, 2023	Service	17,015	Travel To/from Machine	Repair process comments: 10-23-23 Travel to site Travel to shop Sun valley

Oct 31, 2023	Service	17,015	Troubleshoot Bucket	Customer complaint: Bucket does not dump sometimes Cause of failure: Dump solenoid voltage above normal fault Resultant damage: Solenoid needs to be replaced and calibration Performed Repair process comments: 10-23-23 Arrived at site. located machine. spoke with Customer about concern. checked for hazards Around machine. pulled a product status report. Found two faults relative to customer concern. 356-5 dump solenoid #1 current below normal was Logged and 499-13 implement hydraulic pump Solenoid out of calibration. followed Troubleshooting to repair dump sloenoid fault. Checked for software updates and found all Software to be up to date. jumped connector at Harness and fault changed to 356-6 fault Indicating that the condition of the wire was Good back to the implement ecm. also while jumper Was installed i moved wiring harness at machine Pivot area and attempted to create the fault. Wiring harness has a small area of concerne where It should be secure but is loose. wiggled and Tugged on wiring and could not cause the fault to Beome active. attempted to perform a calibration For the valves and it passed. attempted to Perform a calibration for the implement pump Solenoid and it did not pass. will recommend Replacing solenoids on the dump valve and on the Implement pump. will return when parts arrive Update customer. 10-25-23 Arrived at site. machine for repair. replaced Solenoids for dump and rackback (undump) and Solenoid at implement pump. performed calibration For implement functions. performed calibration For implement pump solenoid. cleand area and Began a series of function test. check machine For half an hour machine dump function did not Fail advised customer to test drive in real world Use with a load in the bucket. machine performed Normally. at the end of the day machine began to Have similar issue but improved. buck would get Stuck. customer reported to me while in use i was Able to see how the machine was being operated And when it failed. advised customer that further Inspection for the system would be needed. 10-26-23 Arrived at site secured machine from customer. Inspected machine for new hazards none Found.downloaded electrical schematic. located The position of the implement ecm. indentified Wire number and pin location. removed right side Platform covers to gain access to implement ecm. Disconnected connector and inserted pin tester Pigtail at pin 51 and 52 and at the other end i Disconnected the dump solenoid connector and Performed a continuity test to verify the Integrity of the wire. high ressisance reading Of 22 ohms was detected. knowing this i continued And planned on testing each connection junction That the wire was in. i started at the front of The machine where i suspected and which is a high Fail location for harnesses. i tested this end of The harness and found high ressisance at 17 Ohms. using multimeter i was able to find the Location where the wire had broken inside the Harness. will recommend replacing the entire Harness. this area has a lot of movement and Vibration cutting into the harness loom would Weekend the harness
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Aug 01, 2023	Service	16,738	Perform 2000 Service Hour Maint	Customer complaint: Perform 2000 service hour maint Cause of failure: Normal maint Repair process comments: Date: 7-26-23 hour: 16738 tech: 2853 Perform 2000 service hour maintance Traveled to unit location, performed visual Inspection of unit. started unit to allow unit Fluid to reach operating temperature. once unit Fluid reach operating temperature took fluid Sample from engine oil, engine coolant, hydraulic System, transmission, and both axle. turned unit Off and placed suitable fluid catch container Under unit fluid drains. opened unit fluid drains And drained fluid in to container. removed and Replaced engine oil filter. remove and replace Primary and secondary fuel filter. removed and Replaced hydraulic filters. removed and replace Transmission filter element. removed and Replaced air cleaner filter. after unit fluid Finished draining closed all drain valves and Plugs and refilled to full level points. customer Supplied fluid, customer was using one oil pump For differenced fluid tech in for customer that That is how fluid gets contaminated, customer said Thats how they allow fill there fluid. tech Strongly recommened to get seperate pumps for Each fluid. tech unable to tell amount of fluid Put in due to customer supplied pump not having a Gauge. tech refilled all fuled to full level Point . customer did not have hydraulic fluid, Custmer said to use tech hydraulic fluid from Truck. tech refilled hydraulic system to full Level in sight glass (206.14 qtof 10w hydraulic Fluid). started unit and inspected service area From fluid leaks , no fluid leaks found in Service area . turned unit off and inspected Unit fluid levels unit fluid levels found to be At full level point at time of inspection. Removed and properly disposed of waste oil/ Hazmat. infomed customer that service was Completed. Perform 2000hr service
Aug 01, 2023	Service	16,738	Travel To/from Machine	Customer complaint: Travel to and from jobsite. Travel to sun valley yard

Oct 17, 2022	Service	15,293	Troubleshoot Hydraulic System	Customer complaint: Inspect implement solenoid. Cause of failure: Failed solenoid Resultant damage: No implement control Repair process comments: I arrived site and recieved instructions from Previous tech to tesst solenoid since machine was Already preinspected. i pulled aproduct status Report and began to open inspection door. i then Removed inplement hydraulic filter and cut it Open to inspect. there was no metal found and i Replaced the filter. i then unplugged solenoid and Tested for power and i was recieving full Power.at pins. i then removed lines in order to Reach the solenid. i then had to remove gaurd Which was in a tight location. i mannaged to Remove the 3 bolts little at a time and pulled Off the gaurd. i then used asmall ratchet to Remove the solenoid. i then swapped it out and Reassembled the machine. I returned to site to replace the tilt solenoids With new ones. i then removed harness and removed The rear of the solenoid. i then removed spool From the housing and installed a new spool. i Then tested the machine and calibrated the System. i then packed up wrote report and headed Back to shop.
Oct 17, 2022	Service	15,293	Travel To/from	
Aug 30, 2022	Service	15,293	Travel To/from	
Aug 30, 2022	Service	15,293	Troubleshoot Hydraulic System	Customer complaint: Inspect implement solenoid. Cause of failure: Failed solenoid Resultant damage: No implement control Repair process comments: I arrived site and recieved instructions from Previous tech to tesst solenoid since machine was Already preinspected. i pulled aproduct status Report and began to open inspection door. i then Removed inplement hydraulic filter and cut it Open to inspect. there was no metal found and i Replaced the filter. i then unplugged solenoid and Tested for power and i was recieving full Power.at pins. i then removed lines in order to Reach the solenid. i then had to remove gaurd Which was in a tight location. i mannaged to Remove the 3 bolts little at a time and pulled Off the gaurd. i then used asmall ratchet to Remove the solenoid. i then swapped it out and Reassembled the machine. I returned to site to replace the tilt solenoids With new ones. i then removed harness and removed The rear of the solenoid. i then removed spool From the housing and installed a new spool. i Then tested the machine and calibrated the System. i then packed up wrote report and headed Back to shop.
Jun 01, 2021	Parts			

Feb 11, 2021	Service	12,244	Perform Ta1 Inspection	Customer complaint: CUSTOMER COMPLAINT: None NONE Cause of failure: CAUSE OF FAILURE: None Resultant damage: None NONE Repair process comments: REPAIR PROCESS COMMENTS: 12-03-2020-(1873) 12-03-2020-(1873) Performed a ta1 inspection. PERFORMED A TA1 INSPECTION. Unit needs service and air filter to be cleaned UNIT NEEDS SERVICE AND AIR FILTER TO BE CLEANED Out more frequent. OUT MORE FREQUENT. Also unit needs the fan motor pump gasket to be ALSO UNIT NEEDS THE FAN MOTOR PUMP GASKET TO BE Replaced because its leaking. talked to customer REPLACED BECAUSE ITS LEAKING. TALKED TO CUSTOMER And he said that he was going to look into that. Complimentary ta1 \$149
Feb 11, 2021	Service	12,244	Troubleshoot & Repair Hydraulic Leak	Customer complaint: CUSTOMER COMPLAINT: Hydraulic leak Cause of failure: CAUSE OF FAILURE: Damage hose Resultant damage: RESULTANT DAMAGE: Hydraulic leak HYDRAULIC LEAK Repair process comments: REPAIR PROCESS COMMENTS: 12-03-2020-(1873)-(9102) 12-03-2020-(1873)-(9102) Travel to location. unit was parked in safe work TRAVEL TO LOCATION. UNIT WAS PARKED IN SAFE WORK Area. prep truck to lift cab if needed. inspect AREA. PREP TRUCK TO LIFT CAB IF NEEDED. INSPECT Damage hose and determine that hose could be DAMAGE HOSE AND DETERMINE THAT HOSE COULD BE Removed with out removing the cab. remove 2 REMOVED WITH OUT REMOVING THE CAB. REMOVE 2 Hydraulic hoses to make room to remove hose HYDRAULIC HOSES TO MAKE ROOM TO REMOVE HOSE Clamps. remove hose clamps and maneuver hose out And of unit. clean out tools, cap fittings with AND OF UNIT. CLEAN OUT TOOLS, CAP FITTINGS WITH Plugs and travel back to shop to pick up new PLUGS AND TRAVEL BACK TO SHOP TO PICK UP NEW Hose. talked to parts dep about the fittings been HOSE. TALKED TO PARTS DEP ABOUT THE FITTINGS BEEN Reusable. REUSABLE. Parts dep reuse the fittings on the hose. travel PARTS DEP REUSE THE FITTINGS ON THE HOSE. TRAVEL Back to location and install new hose with new BACK TO LOCATION AND INSTALL NEW HOSE WITH NEW O-ring seals. used ratchet strap to bend hose to O-RING SEALS. USED RATCHET STRAP TO BEND HOSE TO Secure it with clamps. install 2 other hoses and SECURE IT WITH CLAMPS. INSTALL 2 OTHER HOSES AND Had customer top of hydraulic oil. test unit HAD CUSTOMER TOP OF HYDRAULIC OIL. TEST UNIT After hydraulic oil level was in good safe level AFTER HYDRAULIC OIL LEVEL WAS IN GOOD SAFE LEVEL And found no leaks at repair area. hooked up cat AND FOUND NO LEAKS AT REPAIR AREA. HOOKED UP CAT Et and pulled psr. install guard and return Unit back to service. talked to customer to UNIT BACK TO SERVICE. TALKED TO CUSTOMER TO Update on units status.

Feb 11, 2021	Service	12,244	Travel To/from Job Site	
Dec 04, 2020	Service	12,244	Travel To/from Job Site	
Dec 04, 2020	Service	12,244	Perform Ta1 Inspection	Customer complaint: CUSTOMER COMPLAINT: None NONE Cause of failure: CAUSE OF FAILURE: None Resultant damage: None NONE Repair process comments: REPAIR PROCESS COMMENTS: 12-03-2020-(1873) 12-03-2020-(1873) Performed a ta1 inspection. PERFORMED A TA1 INSPECTION. Unit needs service and air filter to be cleaned UNIT NEEDS SERVICE AND AIR FILTER TO BE CLEANED Out more frequent. OUT MORE FREQUENT. Also unit needs the fan motor pump gasket to be ALSO UNIT NEEDS THE FAN MOTOR PUMP GASKET TO BE Replaced because its leaking. talked to customer REPLACED BECAUSE ITS LEAKING. TALKED TO CUSTOMER And he said that he was going to look into that. Complimentary ta1 \$149

Dec 04, 2020	Service	12,244	Troubleshoot & Repair Hydraulic Leak	Customer complaint: CUSTOMER COMPLAINT: Hydraulic leak Cause of failure: CAUSE OF FAILURE: Damage hose Resultant damage: RESULTANT DAMAGE: Hydraulic leak HYDRAULIC LEAK Repair process comments: REPAIR PROCESS COMMENTS: 12-03-2020-(1873)-(9102) 12-03-2020-(1873)-(9102) Travel to location. unit was parked in safe work TRAVEL TO LOCATION. UNIT WAS PARKED IN SAFE WORK Area. prep truck to lift cab if needed. inspect AREA. PREP TRUCK TO LIFT CAB IF NEEDED. INSPECT Damage hose and determine that hose could be DAMAGE HOSE AND DETERMINE THAT HOSE COULD BE Removed with out removing the cab. remove 2 REMOVED WITH OUT REMOVING THE CAB. REMOVE 2 Hydraulic hoses to make room to remove hose HYDRAULIC HOSES TO MAKE ROOM TO REMOVE HOSE Clamps. remove hose clamps and maneuver hose out And of unit. clean out tools, cap fittings with AND OF UNIT. CLEAN OUT TOOLS, CAP FITTINGS WITH Plugs and travel back to shop to pick up new PLUGS AND TRAVEL BACK TO SHOP TO PICK UP NEW Hose. talked to parts dep about the fittings been HOSE. TALKED TO PARTS DEP ABOUT THE FITTINGS BEEN Reusable. REUSABLE. Parts dep reuse the fittings on the hose. travel PARTS DEP REUSE THE FITTINGS ON THE HOSE. TRAVEL Back to location and install new hose with new BACK TO LOCATION AND INSTALL NEW HOSE WITH NEW O-ring seals. used ratchet strap to bend hose to O-RING SEALS. USED RATCHET STRAP TO BEND HOSE TO Secure it with clamps. install 2 other hoses and SECURE IT WITH CLAMPS. INSTALL 2 OTHER HOSES AND Had customer top of hydraulic oil. test unit HAD CUSTOMER TOP OF HYDRAULIC OIL. TEST UNIT After hydraulic oil level was in good safe level AFTER HYDRAULIC OIL LEVEL WAS IN GOOD SAFE LEVEL And found no leaks at repair area. hooked up cat AND FOUND NO LEAKS AT REPAIR AREA. HOOKED UP CAT Et and pulled psr. install guard and return Unit back to service. talked to customer to UNIT BACK TO SERVICE. TALKED TO CUSTOMER TO Update on units status.
Oct 20, 2020	Service	12,100	Troubleshoot Engine Oil	

Oct 20, 2020	Service	12,100	Troubleshoot Steering System	Customer complaint: CUSTOMER COMPLAINT: See instructions above Repair process comments: REPAIR PROCESS COMMENTS: 4764 sept 21, 2020 confirmed (stic Steer) steering control valve in cab is leaking. STEER) STEERING CONTROL VALVE IN CAB IS LEAKING. Not a hose, fitting, or seal. internal, can not Get repair parts for this valve. ordered a GET REPAIR PARTS FOR THIS VALVE. ORDERED A Replacement. not done. 4764 oct 16, 2020 arrived at 4764 OCT 16, 2020 ARRIVED AT 2:30pm, waited slightly. machine brought over, 2:30PM, WAITED SLIGHTLY. MACHINE BROUGHT OVER, Relieved hydraulic pressure in system. removed Plastic covers, lock latch, hoses, and removed PLASTIC COVERS, LOCK LATCH, HOSES, AND REMOVED Steer control valve, swapped fittings, installed STEER CONTROL VALVE, SWAPPED FITTINGS, INSTALLED Replacement, and reconnected all that had been REPLACEMENT, AND RECONNECTED ALL THAT HAD BEEN Removed. started machine, checked for leaks. REMOVED. STARTED MACHINE, CHECKED FOR LEAKS. None. segment 02 done. NONE. SEGMENT 02 DONE. ***note: still need to perform segment 03 engine ***NOTE: STILL NEED TO PERFORM SEGMENT 03 ENGINE Oil leak, on this machine. **** Per customer leaking steering system controller or PER CUSTOMER LEAKING STEERING SYSTEM CONTROLLER OR PER CUSTOMER LEAKING STEERING SYSTEM CONTROLLER OR Hose in cab HOSE IN CAB HOSE IN CAB HOSE IN CAB
Oct 20, 2020	Service	12,100	Travel To/from	
Aug 17, 2020	Service	11,656	Discount Program	
Aug 17, 2020	Service	11,656	Clean Machine	
Aug 17, 2020	Service	11,656	Troubleshoot & Repair Air Conditioner	Additional charges ADDITIONAL CHARGES ADDITIONAL CHARGES ADDITIONAL CHARGES
Aug 17, 2020	Service	11,656	Dynamometer Test Engine	

Aug 17, 2020	Service	11,656	Check & Repair Cylinder Block	Customer complaint: CUSTOMER COMPLAINT: CUSTOMER COMPLAINT: Check and advise cylinder block CHECK AND ADVISE CYLINDER BLOCK CHECK AND ADVISE CYLINDER BLOCK CHECK AND ADVISE CYLINDER BLOCK * * * * Cause of failure: CAUSE OF FAILURE: CAUSE OF FAILURE: CAUSE OF FAILURE: High hours HIGH HOURS HIGH HOURS HIGH HOURS ** * * * * Resultant damage: RESULTANT DAMAGE: RESULTANT DAMAGE: RESULTANT DAMAGE: Low liner ledges. worn deck. worn water holes. LOW LINER LEDGES. WORN DECK. WORN WATER HOLES. LOW LINER LEDGES. WORN DECK. WORN WATER HOLES. LOW LINER LEDGES. WORN DECK. WORN WATER HOLES. *** *** *** *** Repair process comments: REPAIR PROCESS COMMENTS: REPAIR PROCESS COMMENTS: REPAIR PROCESS COMMENTS: Tore down.hot tank. cleaned and inspected. TORE DOWN.HOT TANK. CLEANED AND INSPECTED. TORE DOWN.HOT TANK. CLEANED AND INSPECTED. TORE DOWN.HOT TANK. CLEANED AND INSPECTED. Sleeved 6 lower bores. sleeved 5 water holes. SLEEVED 6 LOWER BORES. SLEEVED 5 WATER HOLES. SLEEVED 6 LOWER BORES. SLEEVED 5 WATER HOLES. SLEEVED 6 LOWER BORES. SLEEVED 5 WATER HOLES. Surfaced deck. cut 6 liner ledges for 6i4361. SURFACED DECK. CUT 6 LINER LEDGES FOR 6I4361. SURFACED DECK. CUT 6 LINER LEDGES FOR 6I4361. SURFACED DECK. CUT 6 LINER LEDGES FOR 6I4361. Inserts .030". hand stoned main saddle pads INSERTS .030". HAND STONED MAIN SADDLE PADS INSERTS .030". HAND STONED MAIN SADDLE PADS INSERTS .030". HAND STONED MAIN SADDLE PADS And main cap pads. torqued main bolts. line honed. AND MAIN CAP PADS. TORQUED MAIN BOLTS. LINE HONED. AND MAIN CAP PADS. TORQUED MAIN BOLTS. LINE HONED. AND MAIN CAP PADS. TORQUED MAIN BOLTS. LINE HONED. AND MAIN CAP PADS. TORQUED MAIN BOLTS. LINE HONED. Brush oil galleys. pressure washed. BRUSH OIL GALLEYS. PRESSURE WASHED. BRUSH OIL GALLEYS. PRESSURE WASHED. BRUSH OIL GALLEYS. PRESSURE WASHED. ***** ***** ***** *****
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Aug 17, 2020	Service	11,656	Replace Engine
Aug 17, 2020	Service	11,656	Discount Program
Aug 17, 2020	Service	11,656	Discount Program

Aug 17, 2020	Service	11,656	Remove & Install Radiator	
Aug 17, 2020	Service	11,656	Remove & Install Brakes	
Aug 17, 2020	Service	11,656	Perform Ta1 Inspection	Complimentary ta1 \$149 COMPLIMENTARY TA1 \$149 COMPLIMENTARY TA1 \$149 COMPLIMENTARY TA1 \$149
Aug 17, 2020	Service	11,656	Pro-level 3 Engine	
Aug 17, 2020	Service	11,656	Remove & Install Engine	
Aug 17, 2020	Service			REPAIR PROCESS COMMENTS: MAG OK. SMALL LINED ON JOURNAL. BENT 0.15 RC OK 60. NEED HOT TANK, STRAIGHTENED AND POLISH. *****
Aug 17, 2020	Service			REPAIR PROCESS COMMENTS: MAG CHECK OKAY. NEEDS POLISH.

Aug 17, 2020	Service	11,667	Troubleshoot & Repair Leak-rpl	Customer complaint: CUSTOMER COMPLAINT: CUSTOMER COMPLAINT: CUSTOMER COMPLAINT: See instructions above SEE INSTRUCTIONS ABOVE SEE INSTRUCTIONS ABOVE SEE INSTRUCTIONS ABOVE Repair process comments: REPAIR PROCESS COMMENTS: REPAIR PROCESS COMMENTS: 4764 july 11, 2020 had ordered 4764 JULY 11, 2020 HAD ORDERED 4764 JULY 11, 2020 HAD ORDERED Torque converter output seal, gasket, and thick TORQUE CONVERTER OUTPUT SEAL, GASKET, AND THICK TORQUE CONVERTER OUTPUT SEAL, GASKET, AND THICK TORQUE CONVERTER OUTPUT SEAL, GASKET, AND THICK Stub shaft o-ring, the night before. once i STUB SHAFT O-RING, THE NIGHT BEFORE. ONCE I STUB SHAFT O-RING, THE NIGHT BEFORE. ONCE I Arrived, found that the leak was at the trans ARRIVED, FOUND THAT THE LEAK WAS AT THE TRANS ARRIVED, FOUND THAT THE LEAK WAS AT THE TRANS ARRIVED, FOUND THAT THE LEAK WAS AT THE TRANS Input seal, and cage area. looked up, and INPUT SEAL, AND CAGE AREA. LOOKED UP, AND INPUT SEAL, AND CAGE AREA. LOOKED UP, AND INPUT SEAL, AND CAGE AREA. LOOKED UP, AND Ordered parts. some are at the sylmar store, but ORDERED PARTS. SOME ARE AT THE SYLMAR STORE, BUT ORDERED PARTS. SOME ARE AT THE SYLMAR STORE, BUT ORDERED PARTS. SOME ARE AT THE SYLMAR STORE, BUT Lip seal is backordered from coi. steering pump LIP SEAL IS BACKORDERED FROM COI. STEERING PUMP LIP SEAL IS BACKORDERED FROM COI. STEERING PUMP Mounting area is leaking, see picture. what made MOUNTING AREA IS LEAKING, SEE PICTURE. WHAT MADE MOUNTING AREA IS LEAKING, SEE PICTURE. WHAT MADE MOUNTING AREA IS LEAKING, SEE PICTURE. WHAT MADE It look worse, is that the a/c accumulator is IT LOOK WORSE, IS THAT THE A/C ACCUMULATOR IS IT LOOK WORSE, IS THAT THE A/C ACCUMULATOR IS IT LOOK WORSE, IS THAT THE A/C ACCUMULATOR IS Right above, and dripping moisture drops on area. RIGHT ABOVE, AND DRIPPING MOISTURE DROPS ON AREA. RIGHT ABOVE, AND DRIPPING MOISTURE DROPS ON AREA. RIGHT ABOVE, AND DRIPPING MOISTURE DROPS ON AREA. Removed middle deck, and unmounted case drain REMOVED MIDDLE DECK, AND UNMOUNTED CASE DRAIN REMOVED MIDDLE DECK, AND UNMOUNTED CASE DRAIN REMOVED MIDDLE DECK, AND UNMOUNTED CASE DRAIN Filter bracket. unmounted a/c lines support FILTER BRACKET. UNMOUNTED A/C LINES SUPPORT FILTER BRACKET. UNMOUNTED A/C LINES SUPPORT FILTER BRACKET. UNMOUNTED A/C LINES SUPPORT Brackets, and moved to the side. unmounted BRACKETS, AND MOVED TO THE SIDE. UNMOUNTED BRACKETS, AND MOVED TO THE SIDE. UNMOUNTED BRACKETS, AND MOVED TO THE SIDE. UNMOUNTED Steering pump lines, and removed with the crane. STEERING PUMP LINES, AND REMOVED WITH THE CRANE. STEERING PUMP LINES, AND REMOVED WITH THE CRANE. Once steering pump removed, seen that the ONCE STEERING PUMP REMOVED, SEEN THAT THE ONCE STEERING
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THE Internal lip seal that keeps hydraulic oil out of INTERNAL LIP SEAL THAT KEEPS HYDRAULIC OIL OUT OF INTERNAL LIP SEAL THAT KEEPS HYDRAULIC OIL OUT OF The power train oil is cracking. looked up, and THE POWER TRAIN OIL IS CRACKING. LOOKED UP, AND THE POWER TRAIN OIL IS CRACKING. LOOKED UP, AND THE POWER TRAIN OIL IS CRACKING. LOOKED UP, AND Ordered. removed drive line, trans input yoke, ORDERED. REMOVED DRIVE LINE, TRANS INPUT YOKE, ORDERED. REMOVED DRIVE LINE, TRANS INPUT YOKE, ORDERED. REMOVED DRIVE LINE, TRANS INPUT YOKE, And cage assembly. covered openings, not done. AND CAGE ASSEMBLY. COVERED OPENINGS, NOT DONE. AND CAGE ASSEMBLY. COVERED OPENINGS, NOT DONE. AND CAGE ASSEMBLY. COVERED OPENINGS, NOT DONE. 4764 july 12, 2020 received 4764 JULY 12, 2020 RECEIVED 4764 JULY 12, 2020 RECEIVED Trans input lip seal from parts. had to wait a TRANS INPUT LIP SEAL FROM PARTS. HAD TO WAIT A TRANS INPUT LIP SEAL FROM PARTS. HAD TO WAIT A TRANS INPUT LIP SEAL FROM PARTS. HAD TO WAIT A Little. proceeded to the job site. installed LITTLE. PROCEEDED TO THE JOB SITE. INSTALLED LITTLE. PROCEEDED TO THE JOB SITE. INSTALLED O-ring seal on cage, and installed lip seal. O-RING SEAL ON CAGE, AND INSTALLED LIP SEAL. O-RING SEAL ON CAGE, AND INSTALLED LIP SEAL. Mounted on the trans. while installing the drive MOUNTED ON THE TRANS. WHILE INSTALLING THE DRIVE MOUNTED ON THE TRANS. WHILE INSTALLING THE DRIVE MOUNTED ON THE TRANS. WHILE INSTALLING THE DRIVE Line, noticed that the cooler hose going to the LINE, NOTICED THAT THE COOLER HOSE GOING TO THE LINE, NOTICED THAT THE COOLER HOSE GOING TO THE Trans lube is cracked severely. this needs to be TRANS LUBE IS CRACKED SEVERELY. THIS NEEDS TO BE TRANS LUBE IS CRACKED SEVERELY. THIS NEEDS TO BE TRANS LUBE IS CRACKED SEVERELY. THIS NEEDS TO BE Done now, do not wait. notified tim, and the DONE NOW, DO NOT WAIT. NOTIFIED TIM, AND THE DONE NOW, DO NOT WAIT. NOTIFIED TIM, AND THE DONE NOW, DO NOT WAIT. NOTIFIED TIM, AND THE Customer by text. the go ahead was given. CUSTOMER BY TEXT. THE GO AHEAD WAS GIVEN. CUSTOMER BY TEXT. THE GO AHEAD WAS GIVEN. CUSTOMER BY TEXT. THE GO AHEAD WAS GIVEN. Removed hose, and clamps. richard from newman REMOVED HOSE, AND CLAMPS. RICHARD FROM NEWMAN REMOVED HOSE, AND CLAMPS. RICHARD FROM NEWMAN And sons took it to the parts dept. they AND SONS TOOK IT TO THE PARTS DEPT. THEY AND SONS TOOK IT TO THE PARTS DEPT. THEY Fabricated, and he returned. installed the hose, FABRICATED, AND HE RETURNED. INSTALLED THE HOSE, FABRICATED, AND HE RETURNED. INSTALLED THE HOSE, Done for the day. DONE FOR THE DAY. DONE FOR THE DAY. 4764 july, 2020 removed 4764 JULY, 2020 REMOVED 4764 JULY, 2020 REMOVED Internal steering pump drive lip seal, and INTERNAL STEERING PUMP DRIVE LIP SEAL, AND INTERNAL

AND Installed the replacement. installed a new INSTALLED THE REPLACEMENT. INSTALLED A NEW INSTALLED THE REPLACEMENT. INSTALLED A NEW Steering pump mounting seal. reinstalled the STEERING PUMP MOUNTING SEAL. REINSTALLED THE STEERING PUMP MOUNTING SEAL. REINSTALLED THE Steering pump, and reconnected all the lines that STEERING PUMP, AND RECONNECTED ALL THE LINES THAT STEERING PUMP, AND RECONNECTED ALL THE LINES THAT Were removed. remounted middle decking behind WERE REMOVED. REMOUNTED MIDDLE DECKING BEHIND Cab. started machine, operated for a little CAB. STARTED MACHINE, OPERATED FOR A LITTLE CAB. STARTED MACHINE, OPERATED FOR A LITTLE While. WHILE. ****more power train hoses should be done, they ****MORE POWER TRAIN HOSES SHOULD BE DONE, THEY ****MORE POWER TRAIN HOSES SHOULD BE DONE, THEY Are hard, brittle, and may leak soon. job done. ARE HARD, BRITTLE, AND MAY LEAK SOON. JOB DONE. ARE HARD, BRITTLE, AND MAY LEAK SOON. JOB DONE.

Aug 17, 2020	Service	11,667	Travel To/from	
Aug 17, 2020	Service	11,656	Top Off Fluid	Top off fluids TOP OFF FLUIDS TOP OFF FLUIDS
Aug 17, 2020	Service	11,656	Replace Hoses & Lines	
Aug 17, 2020	Service	11,656	Troubleshoot & Repair Leak-rpl	Troubleshoot & repair leak TROUBLESHOOT & REPAIR LEAK TROUBLESHOOT & REPAIR LEAK
Aug 17, 2020	Service	11,656	Reseal Lift Cylinder	Reseal both lift cylinders RESEAL BOTH LIFT CYLINDERS RESEAL BOTH LIFT CYLINDERS RESEAL BOTH LIFT CYLINDERS
Aug 17, 2020	Service			FINISH MACHINE ASSEMBLY.
Aug 17, 2020	Service	11,656	Troubleshoot & Repair Leak-rpl	Troubleshoot & repair leak TROUBLESHOOT & REPAIR LEAK TROUBLESHOOT & REPAIR LEAK
Aug 17, 2020	Service	11,656	Reseal Lift Cylinder	Reseal both lift cylinders RESEAL BOTH LIFT CYLINDERS RESEAL BOTH LIFT CYLINDERS RESEAL BOTH LIFT CYLINDERS
Aug 17, 2020	Service	11,656	Replace Hoses & Lines	
Aug 17, 2020	Service	11,656	Top Off Fluid	Top off fluids TOP OFF FLUIDS TOP OFF FLUIDS

Aug 17, 2020	Service	11,667	Troubleshoot & Repair Leak-rpl	Customer complaint: CUSTOMER COMPLAINT: CUSTOMER COMPLAINT: CUSTOMER COMPLAINT: See instructions above SEE INSTRUCTIONS ABOVE SEE INSTRUCTIONS ABOVE SEE INSTRUCTIONS ABOVE Repair process comments: REPAIR PROCESS COMMENTS: REPAIR PROCESS COMMENTS: 4764 july 11, 2020 had ordered 4764 JULY 11, 2020 HAD ORDERED 4764 JULY 11, 2020 HAD ORDERED Torque converter output seal, gasket, and thick TORQUE CONVERTER OUTPUT SEAL, GASKET, AND THICK TORQUE CONVERTER OUTPUT SEAL, GASKET, AND THICK TORQUE CONVERTER OUTPUT SEAL, GASKET, AND THICK Stub shaft o-ring, the night before. once i STUB SHAFT O-RING, THE NIGHT BEFORE. ONCE I STUB SHAFT O-RING, THE NIGHT BEFORE. ONCE I Arrived, found that the leak was at the trans ARRIVED, FOUND THAT THE LEAK WAS AT THE TRANS ARRIVED, FOUND THAT THE LEAK WAS AT THE TRANS ARRIVED, FOUND THAT THE LEAK WAS AT THE TRANS Input seal, and cage area. looked up, and INPUT SEAL, AND CAGE AREA. LOOKED UP, AND INPUT SEAL, AND CAGE AREA. LOOKED UP, AND INPUT SEAL, AND CAGE AREA. LOOKED UP, AND Ordered parts. some are at the sylmar store, but ORDERED PARTS. SOME ARE AT THE SYLMAR STORE, BUT ORDERED PARTS. SOME ARE AT THE SYLMAR STORE, BUT ORDERED PARTS. SOME ARE AT THE SYLMAR STORE, BUT Lip seal is backordered from coi. steering pump LIP SEAL IS BACKORDERED FROM COI. STEERING PUMP LIP SEAL IS BACKORDERED FROM COI. STEERING PUMP Mounting area is leaking, see picture. what made MOUNTING AREA IS LEAKING, SEE PICTURE. WHAT MADE MOUNTING AREA IS LEAKING, SEE PICTURE. WHAT MADE MOUNTING AREA IS LEAKING, SEE PICTURE. WHAT MADE It look worse, is that the a/c accumulator is IT LOOK WORSE, IS THAT THE A/C ACCUMULATOR IS IT LOOK WORSE, IS THAT THE A/C ACCUMULATOR IS IT LOOK WORSE, IS THAT THE A/C ACCUMULATOR IS Right above, and dripping moisture drops on area. RIGHT ABOVE, AND DRIPPING MOISTURE DROPS ON AREA. RIGHT ABOVE, AND DRIPPING MOISTURE DROPS ON AREA. RIGHT ABOVE, AND DRIPPING MOISTURE DROPS ON AREA. Removed middle deck, and unmounted case drain REMOVED MIDDLE DECK, AND UNMOUNTED CASE DRAIN REMOVED MIDDLE DECK, AND UNMOUNTED CASE DRAIN REMOVED MIDDLE DECK, AND UNMOUNTED CASE DRAIN Filter bracket. unmounted a/c lines support FILTER BRACKET. UNMOUNTED A/C LINES SUPPORT FILTER BRACKET. UNMOUNTED A/C LINES SUPPORT FILTER BRACKET. UNMOUNTED A/C LINES SUPPORT Brackets, and moved to the side. unmounted BRACKETS, AND MOVED TO THE SIDE. UNMOUNTED BRACKETS, AND MOVED TO THE SIDE. UNMOUNTED BRACKETS, AND MOVED TO THE SIDE. UNMOUNTED Steering pump lines, and removed with the crane. STEERING PUMP LINES, AND REMOVED WITH THE CRANE. STEERING PUMP LINES, AND REMOVED WITH THE CRANE. Once steering pump removed, seen that the ONCE STEERING PUMP REMOVED, SEEN THAT THE ONCE STEERING
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THE Internal lip seal that keeps hydraulic oil out of INTERNAL LIP SEAL THAT KEEPS HYDRAULIC OIL OUT OF INTERNAL LIP SEAL THAT KEEPS HYDRAULIC OIL OUT OF The power train oil is cracking. looked up, and THE POWER TRAIN OIL IS CRACKING. LOOKED UP, AND THE POWER TRAIN OIL IS CRACKING. LOOKED UP, AND THE POWER TRAIN OIL IS CRACKING. LOOKED UP, AND Ordered. removed drive line, trans input yoke, ORDERED. REMOVED DRIVE LINE, TRANS INPUT YOKE, ORDERED. REMOVED DRIVE LINE, TRANS INPUT YOKE, ORDERED. REMOVED DRIVE LINE, TRANS INPUT YOKE, And cage assembly. covered openings, not done. AND CAGE ASSEMBLY. COVERED OPENINGS, NOT DONE. AND CAGE ASSEMBLY. COVERED OPENINGS, NOT DONE. AND CAGE ASSEMBLY. COVERED OPENINGS, NOT DONE. 4764 july 12, 2020 received 4764 JULY 12, 2020 RECEIVED 4764 JULY 12, 2020 RECEIVED Trans input lip seal from parts. had to wait a TRANS INPUT LIP SEAL FROM PARTS. HAD TO WAIT A TRANS INPUT LIP SEAL FROM PARTS. HAD TO WAIT A TRANS INPUT LIP SEAL FROM PARTS. HAD TO WAIT A Little. proceeded to the job site. installed LITTLE. PROCEEDED TO THE JOB SITE. INSTALLED LITTLE. PROCEEDED TO THE JOB SITE. INSTALLED O-ring seal on cage, and installed lip seal. O-RING SEAL ON CAGE, AND INSTALLED LIP SEAL. O-RING SEAL ON CAGE, AND INSTALLED LIP SEAL. Mounted on the trans. while installing the drive MOUNTED ON THE TRANS. WHILE INSTALLING THE DRIVE MOUNTED ON THE TRANS. WHILE INSTALLING THE DRIVE MOUNTED ON THE TRANS. WHILE INSTALLING THE DRIVE Line, noticed that the cooler hose going to the LINE, NOTICED THAT THE COOLER HOSE GOING TO THE LINE, NOTICED THAT THE COOLER HOSE GOING TO THE Trans lube is cracked severely. this needs to be TRANS LUBE IS CRACKED SEVERELY. THIS NEEDS TO BE TRANS LUBE IS CRACKED SEVERELY. THIS NEEDS TO BE TRANS LUBE IS CRACKED SEVERELY. THIS NEEDS TO BE Done now, do not wait. notified tim, and the DONE NOW, DO NOT WAIT. NOTIFIED TIM, AND THE DONE NOW, DO NOT WAIT. NOTIFIED TIM, AND THE DONE NOW, DO NOT WAIT. NOTIFIED TIM, AND THE Customer by text. the go ahead was given. CUSTOMER BY TEXT. THE GO AHEAD WAS GIVEN. CUSTOMER BY TEXT. THE GO AHEAD WAS GIVEN. Removed hose, and clamps. richard from newman REMOVED HOSE, AND CLAMPS. RICHARD FROM NEWMAN REMOVED HOSE, AND CLAMPS. RICHARD FROM NEWMAN And sons took it to the parts dept. they AND SONS TOOK IT TO THE PARTS DEPT. THEY AND SONS TOOK IT TO THE PARTS DEPT. THEY Fabricated, and he returned. installed the hose, FABRICATED, AND HE RETURNED. INSTALLED THE HOSE, FABRICATED, AND HE RETURNED. INSTALLED THE HOSE, Done for the day. DONE FOR THE DAY. DONE FOR THE DAY. 4764 july, 2020 removed 4764 JULY, 2020 REMOVED 4764 JULY, 2020 REMOVED Internal steering pump drive lip seal, and INTERNAL STEERING PUMP DRIVE LIP SEAL, AND INTERNAL

AND Installed the replacement. installed a new INSTALLED THE REPLACEMENT. INSTALLED A NEW INSTALLED THE REPLACEMENT. INSTALLED A NEW Steering pump mounting seal. reinstalled the STEERING PUMP MOUNTING SEAL. REINSTALLED THE STEERING PUMP MOUNTING SEAL. REINSTALLED THE Steering pump, and reconnected all the lines that STEERING PUMP, AND RECONNECTED ALL THE LINES THAT STEERING PUMP, AND RECONNECTED ALL THE LINES THAT Were removed. remounted middle decking behind WERE REMOVED. REMOUNTED MIDDLE DECKING BEHIND WERE REMOVED. REMOUNTED MIDDLE DECKING BEHIND Cab. started machine, operated for a little CAB. STARTED MACHINE, OPERATED FOR A LITTLE CAB. STARTED MACHINE, OPERATED FOR A LITTLE While. WHILE. ****more power train hoses should be done, they ****MORE POWER TRAIN HOSES SHOULD BE DONE, THEY ****MORE POWER TRAIN HOSES SHOULD BE DONE, THEY Are hard, brittle, and may leak soon. job done. ARE HARD, BRITTLE, AND MAY LEAK SOON. JOB DONE. ARE HARD, BRITTLE, AND MAY LEAK SOON. JOB DONE.

Aug 17, 2020	Service	11,667	Travel To/from	
Aug 17, 2020	Service	11,656	Remove & Install Brakes	
Aug 17, 2020	Service	11,656	Troubleshoot & Repair Air Conditioner	Additional charges ADDITIONAL CHARGES ADDITIONAL CHARGES ADDITIONAL CHARGES
Aug 17, 2020	Service	11,656	Discount Program	
Aug 17, 2020	Service	11,656	Remove & Install Engine	
Aug 17, 2020	Service	11,656	Discount Program	
Aug 17, 2020	Service	11,656	Remove & Install Radiator	
Aug 17, 2020	Service	11,656	Remove & Install Brakes	
Aug 17, 2020	Service	11,656	Perform Ta1 Inspection	Complimentary ta1 \$149 COMPLIMENTARY TA1 \$149 COMPLIMENTARY TA1 \$149 COMPLIMENTARY TA1 \$149
Aug 17, 2020	Service	11,656	Troubleshoot & Repair Air Conditioner	Additional charges ADDITIONAL CHARGES ADDITIONAL CHARGES ADDITIONAL CHARGES

Aug 17, 2020	Service	11,656	Dynamometer Test Engine	
Aug 17, 2020	Service	11,656	Replace Engine	
Aug 17, 2020	Service	11,656	Discount Program	
Aug 17, 2020	Service	11,656	Clean Machine	

Aug 17, 2020	Service	11,656	Check & Repair Cylinder Block	Customer complaint: CUSTOMER COMPLAINT: CUSTOMER COMPLAINT: Check and advise cylinder block CHECK AND ADVISE CYLINDER BLOCK CHECK AND ADVISE CYLINDER BLOCK CHECK AND ADVISE CYLINDER BLOCK * * * * Cause of failure: CAUSE OF FAILURE: CAUSE OF FAILURE: CAUSE OF FAILURE: High hours HIGH HOURS HIGH HOURS HIGH HOURS ** ** ** ** Resultant damage: RESULTANT DAMAGE: RESULTANT DAMAGE: RESULTANT DAMAGE: Low liner ledges. worn deck. worn water holes. LOW LINER LEDGES. WORN DECK. WORN WATER HOLES. LOW LINER LEDGES. WORN DECK. WORN WATER HOLES. LOW LINER LEDGES. WORN DECK. WORN WATER HOLES. *** ** Repair process comments: REPAIR PROCESS COMMENTS: REPAIR PROCESS COMMENTS: REPAIR PROCESS COMMENTS: Tore down.hot tank. cleaned and inspected. TORE DOWN.HOT TANK. CLEANED AND INSPECTED. TORE DOWN.HOT TANK. CLEANED AND INSPECTED. TORE DOWN.HOT TANK. CLEANED AND INSPECTED. Sleeved 6 lower bores. sleeved 5 water holes. SLEEVED 6 LOWER BORES. SLEEVED 5 WATER HOLES. SLEEVED 6 LOWER BORES. SLEEVED 5 WATER HOLES. SLEEVED 6 LOWER BORES. SLEEVED 5 WATER HOLES. Surfaced deck. cut 6 liner ledges for 6i4361. SURFACED DECK. CUT 6 LINER LEDGES FOR 6I4361. SURFACED DECK. CUT 6 LINER LEDGES FOR 6I4361. SURFACED DECK. CUT 6 LINER LEDGES FOR 6I4361. Inserts .030". hand stoned main saddle pads INSERTS .030". HAND STONED MAIN SADDLE PADS INSERTS .030". HAND STONED MAIN SADDLE PADS INSERTS .030". HAND STONED MAIN SADDLE PADS And main cap pads. torqued main bolts. line honed. AND MAIN CAP PADS. TORQUED MAIN BOLTS. LINE HONED. AND MAIN CAP PADS. TORQUED MAIN BOLTS. LINE HONED. AND MAIN CAP PADS. TORQUED MAIN BOLTS. LINE HONED. AND MAIN CAP PADS. TORQUED MAIN BOLTS. LINE HONED. Brush oil galleys. pressure washed. BRUSH OIL GALLEYS. PRESSURE WASHED. BRUSH OIL GALLEYS. PRESSURE WASHED. BRUSH OIL GALLEYS. PRESSURE WASHED. ***** ***** ***** *****
Aug 17, 2020	Service	11,656	Pro-level 3 Engine	

Aug 10, 2020	Service	11,702	Troubleshoot Air Conditioner	Customer complaint: A/c blows hot A/C BLOWS HOT Cause of failure: CAUSE OF FAILURE: Leaks LEAKS Repair process comments: REPAIR PROCESS COMMENTS: 7-27-2020: Inspected a/c system and found back of compressor Wet with pag oil. discovered that the high side WET WITH PAG OIL. DISCOVERED THAT THE HIGH SIDE Line off the compressor was slightly loose. LINE OFF THE COMPRESSOR WAS SLIGHTLY LOOSE. Replaced hi and low side seals and tightened Lines. put system under vacuum and vacuum held For 10 minutes. charged system with 2.6 kgs of Freon and 1 oz of pag oil. FREON AND 1 OZ OF PAG OIL. 8-3-2020: Customer stated that ac was blowing warm again. CUSTOMER STATED THAT AC WAS BLOWING WARM AGAIN. Found oil coming from valve on compressor Manifold. ordered all valve cores for manifold. MANIFOLD. ORDERED ALL VALVE CORES FOR MANIFOLD. 8-5-2020: 8-5-2020: Vacuumed ac system and removed compressor Manifold. replaced all valve cores and MANIFOLD. REPLACED ALL VALVE CORES AND Reinstalled manifold. vacuumed system for 15 REINSTALLED MANIFOLD. VACUUMED SYSTEM FOR 15 Minutes and system held vacuum. charged ac system MINUTES AND SYSTEM HELD VACUUM. CHARGED AC SYSTEM With 2.6 kgs of freon. WITH 2.6 KGS OF FREON.
Aug 10, 2020	Service	11,702	Travel To/from	
Jul 29, 2020	Service	11,656	Top Off Fluid	Top off fluids TOP OFF FLUIDS TOP OFF FLUIDS
Jul 29, 2020	Service	11,656	Troubleshoot & Repair Leak-rpl	Troubleshoot & repair leak TROUBLESHOOT & REPAIR LEAK TROUBLESHOOT & REPAIR LEAK
Jul 29, 2020	Service	11,656	Reseal Lift Cylinder	Reseal both lift cylinders RESEAL BOTH LIFT CYLINDERS RESEAL BOTH LIFT CYLINDERS RESEAL BOTH LIFT CYLINDERS
Jul 29, 2020	Service	11,656	Replace Hoses & Lines	
Jul 29, 2020	Service			FINISH MACHINE ASSEMBLY.
Jul 29, 2020	Service	11,667	Travel To/from	

Jul 29, 2020	Service	11,667	Troubleshoot & Repair Leak-rpl	Customer complaint: CUSTOMER COMPLAINT: CUSTOMER COMPLAINT: CUSTOMER COMPLAINT: See instructions above SEE INSTRUCTIONS ABOVE SEE INSTRUCTIONS ABOVE SEE INSTRUCTIONS ABOVE Repair process comments: REPAIR PROCESS COMMENTS: REPAIR PROCESS COMMENTS: 4764 july 11, 2020 had ordered 4764 JULY 11, 2020 HAD ORDERED 4764 JULY 11, 2020 HAD ORDERED Torque converter output seal, gasket, and thick TORQUE CONVERTER OUTPUT SEAL, GASKET, AND THICK TORQUE CONVERTER OUTPUT SEAL, GASKET, AND THICK TORQUE CONVERTER OUTPUT SEAL, GASKET, AND THICK Stub shaft o-ring, the night before. once i STUB SHAFT O-RING, THE NIGHT BEFORE. ONCE I STUB SHAFT O-RING, THE NIGHT BEFORE. ONCE I Arrived, found that the leak was at the trans ARRIVED, FOUND THAT THE LEAK WAS AT THE TRANS ARRIVED, FOUND THAT THE LEAK WAS AT THE TRANS ARRIVED, FOUND THAT THE LEAK WAS AT THE TRANS Input seal, and cage area. looked up, and INPUT SEAL, AND CAGE AREA. LOOKED UP, AND INPUT SEAL, AND CAGE AREA. LOOKED UP, AND INPUT SEAL, AND CAGE AREA. LOOKED UP, AND Ordered parts. some are at the sylmar store, but ORDERED PARTS. SOME ARE AT THE SYLMAR STORE, BUT ORDERED PARTS. SOME ARE AT THE SYLMAR STORE, BUT ORDERED PARTS. SOME ARE AT THE SYLMAR STORE, BUT Lip seal is backordered from coi. steering pump LIP SEAL IS BACKORDERED FROM COI. STEERING PUMP LIP SEAL IS BACKORDERED FROM COI. STEERING PUMP Mounting area is leaking, see picture. what made MOUNTING AREA IS LEAKING, SEE PICTURE. WHAT MADE MOUNTING AREA IS LEAKING, SEE PICTURE. WHAT MADE MOUNTING AREA IS LEAKING, SEE PICTURE. WHAT MADE It look worse, is that the a/c accumulator is IT LOOK WORSE, IS THAT THE A/C ACCUMULATOR IS IT LOOK WORSE, IS THAT THE A/C ACCUMULATOR IS IT LOOK WORSE, IS THAT THE A/C ACCUMULATOR IS Right above, and dripping moisture drops on area. RIGHT ABOVE, AND DRIPPING MOISTURE DROPS ON AREA. RIGHT ABOVE, AND DRIPPING MOISTURE DROPS ON AREA. RIGHT ABOVE, AND DRIPPING MOISTURE DROPS ON AREA. Removed middle deck, and unmounted case drain REMOVED MIDDLE DECK, AND UNMOUNTED CASE DRAIN REMOVED MIDDLE DECK, AND UNMOUNTED CASE DRAIN REMOVED MIDDLE DECK, AND UNMOUNTED CASE DRAIN Filter bracket. unmounted a/c lines support FILTER BRACKET. UNMOUNTED A/C LINES SUPPORT FILTER BRACKET. UNMOUNTED A/C LINES SUPPORT FILTER BRACKET. UNMOUNTED A/C LINES SUPPORT Brackets, and moved to the side. unmounted BRACKETS, AND MOVED TO THE SIDE. UNMOUNTED BRACKETS, AND MOVED TO THE SIDE. UNMOUNTED BRACKETS, AND MOVED TO THE SIDE. UNMOUNTED Steering pump lines, and removed with the crane. STEERING PUMP LINES, AND REMOVED WITH THE CRANE. STEERING PUMP LINES, AND REMOVED WITH THE CRANE. Once steering pump removed, seen that the ONCE STEERING PUMP REMOVED, SEEN THAT THE ONCE STEERING
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THE Internal lip seal that keeps hydraulic oil out of INTERNAL LIP SEAL THAT KEEPS HYDRAULIC OIL OUT OF INTERNAL LIP SEAL THAT KEEPS HYDRAULIC OIL OUT OF The power train oil is cracking. looked up, and THE POWER TRAIN OIL IS CRACKING. LOOKED UP, AND THE POWER TRAIN OIL IS CRACKING. LOOKED UP, AND THE POWER TRAIN OIL IS CRACKING. LOOKED UP, AND Ordered. removed drive line, trans input yoke, ORDERED. REMOVED DRIVE LINE, TRANS INPUT YOKE, ORDERED. REMOVED DRIVE LINE, TRANS INPUT YOKE, ORDERED. REMOVED DRIVE LINE, TRANS INPUT YOKE, And cage assembly. covered openings, not done. AND CAGE ASSEMBLY. COVERED OPENINGS, NOT DONE. AND CAGE ASSEMBLY. COVERED OPENINGS, NOT DONE. AND CAGE ASSEMBLY. COVERED OPENINGS, NOT DONE. 4764 july 12, 2020 received 4764 JULY 12, 2020 RECEIVED 4764 JULY 12, 2020 RECEIVED Trans input lip seal from parts. had to wait a TRANS INPUT LIP SEAL FROM PARTS. HAD TO WAIT A TRANS INPUT LIP SEAL FROM PARTS. HAD TO WAIT A TRANS INPUT LIP SEAL FROM PARTS. HAD TO WAIT A Little. proceeded to the job site. installed LITTLE. PROCEEDED TO THE JOB SITE. INSTALLED LITTLE. PROCEEDED TO THE JOB SITE. INSTALLED O-ring seal on cage, and installed lip seal. O-RING SEAL ON CAGE, AND INSTALLED LIP SEAL. O-RING SEAL ON CAGE, AND INSTALLED LIP SEAL. Mounted on the trans. while installing the drive MOUNTED ON THE TRANS. WHILE INSTALLING THE DRIVE MOUNTED ON THE TRANS. WHILE INSTALLING THE DRIVE MOUNTED ON THE TRANS. WHILE INSTALLING THE DRIVE Line, noticed that the cooler hose going to the LINE, NOTICED THAT THE COOLER HOSE GOING TO THE LINE, NOTICED THAT THE COOLER HOSE GOING TO THE Trans lube is cracked severely. this needs to be TRANS LUBE IS CRACKED SEVERELY. THIS NEEDS TO BE TRANS LUBE IS CRACKED SEVERELY. THIS NEEDS TO BE TRANS LUBE IS CRACKED SEVERELY. THIS NEEDS TO BE Done now, do not wait. notified tim, and the DONE NOW, DO NOT WAIT. NOTIFIED TIM, AND THE DONE NOW, DO NOT WAIT. NOTIFIED TIM, AND THE DONE NOW, DO NOT WAIT. NOTIFIED TIM, AND THE Customer by text. the go ahead was given. CUSTOMER BY TEXT. THE GO AHEAD WAS GIVEN. CUSTOMER BY TEXT. THE GO AHEAD WAS GIVEN. CUSTOMER BY TEXT. THE GO AHEAD WAS GIVEN. Removed hose, and clamps. richard from newman REMOVED HOSE, AND CLAMPS. RICHARD FROM NEWMAN REMOVED HOSE, AND CLAMPS. RICHARD FROM NEWMAN And sons took it to the parts dept. they AND SONS TOOK IT TO THE PARTS DEPT. THEY AND SONS TOOK IT TO THE PARTS DEPT. THEY Fabricated, and he returned. installed the hose, FABRICATED, AND HE RETURNED. INSTALLED THE HOSE, FABRICATED, AND HE RETURNED. INSTALLED THE HOSE, Done for the day. DONE FOR THE DAY. DONE FOR THE DAY. 4764 july, 2020 removed 4764 JULY, 2020 REMOVED 4764 JULY, 2020 REMOVED Internal steering pump drive lip seal, and INTERNAL STEERING PUMP DRIVE LIP SEAL, AND INTERNAL

AND Installed the replacement. installed a new INSTALLED THE REPLACEMENT. INSTALLED A NEW INSTALLED THE REPLACEMENT. INSTALLED A NEW Steering pump mounting seal. reinstalled the STEERING PUMP MOUNTING SEAL. REINSTALLED THE STEERING PUMP MOUNTING SEAL. REINSTALLED THE Steering pump, and reconnected all the lines that STEERING PUMP, AND RECONNECTED ALL THE LINES THAT STEERING PUMP, AND RECONNECTED ALL THE LINES THAT Were removed. remounted middle decking behind WERE REMOVED. REMOUNTED MIDDLE DECKING BEHIND WERE REMOVED. REMOUNTED MIDDLE DECKING BEHIND Cab. started machine, operated for a little CAB. STARTED MACHINE, OPERATED FOR A LITTLE CAB. STARTED MACHINE, OPERATED FOR A LITTLE While. WHILE. ****more power train hoses should be done, they ****MORE POWER TRAIN HOSES SHOULD BE DONE, THEY ****MORE POWER TRAIN HOSES SHOULD BE DONE, THEY Are hard, brittle, and may leak soon. job done. ARE HARD, BRITTLE, AND MAY LEAK SOON. JOB DONE. ARE HARD, BRITTLE, AND MAY LEAK SOON. JOB DONE.

Jun 30, 2020	Service	11,656	Remove & Install Brakes	
Jun 30, 2020	Service	11,656	Discount Program	
Jun 30, 2020	Service	11,656	Remove & Install Brakes	
Jun 30, 2020	Service	11,656	Troubleshoot & Repair Air Conditioner	Additional charges ADDITIONAL CHARGES ADDITIONAL CHARGES ADDITIONAL CHARGES
Jun 30, 2020	Service	11,656	Remove & Install Radiator	
Jun 30, 2020	Service	11,656	Clean Machine	
Jun 30, 2020	Service	11,656	Perform Ta1 Inspection	Complimentary ta1 \$149 COMPLIMENTARY TA1 \$149 COMPLIMENTARY TA1 \$149 COMPLIMENTARY TA1 \$149

				Customer complaint: CUSTOMER COMPLAINT: CUSTOMER COMPLAINT: Check and advise cylinder block CHECK AND ADVISE CYLINDER BLOCK CHECK AND ADVISE CYLINDER BLOCK CHECK AND ADVISE CYLINDER BLOCK * * * * Cause of failure: CAUSE OF FAILURE: CAUSE OF FAILURE: CAUSE OF FAILURE: High hours HIGH HOURS HIGH HOURS HIGH HOURS ** * * * * Resultant damage: RESULTANT DAMAGE: RESULTANT DAMAGE: RESULTANT DAMAGE: Low liner ledges. worn deck. worn water holes. LOW LINER LEDGES. WORN DECK. WORN WATER HOLES. LOW LINER LEDGES. WORN DECK. WORN WATER HOLES. LOW LINER LEDGES. WORN DECK. WORN WATER HOLES. *** *** *** *** Repair process comments: REPAIR PROCESS COMMENTS: REPAIR PROCESS COMMENTS: REPAIR PROCESS COMMENTS: Tore down.hot tank. cleaned and inspected. TORE DOWN.HOT TANK. CLEANED AND INSPECTED. TORE DOWN.HOT TANK. CLEANED AND INSPECTED. TORE DOWN.HOT TANK. CLEANED AND INSPECTED. Sleeved 6 lower bores. sleeved 5 water holes. SLEEVED 6 LOWER BORES. SLEEVED 5 WATER HOLES. SLEEVED 6 LOWER BORES. SLEEVED 5 WATER HOLES. SLEEVED 6 LOWER BORES. SLEEVED 5 WATER HOLES. Surfaced deck. cut 6 liner ledges for 6i4361. SURFACED DECK. CUT 6 LINER LEDGES FOR 6I4361. SURFACED DECK. CUT 6 LINER LEDGES FOR 6I4361. SURFACED DECK. CUT 6 LINER LEDGES FOR 6I4361. Inserts .030". hand stoned main saddle pads INSERTS .030". HAND STONED MAIN SADDLE PADS INSERTS .030". HAND STONED MAIN SADDLE PADS INSERTS .030". HAND STONED MAIN SADDLE PADS And main cap pads. torqued main bolts. line honed. AND MAIN CAP PADS. TORQUED MAIN BOLTS. LINE HONED. AND MAIN CAP PADS. TORQUED MAIN BOLTS. LINE HONED. AND MAIN CAP PADS. TORQUED MAIN BOLTS. LINE HONED. AND MAIN CAP PADS. TORQUED MAIN BOLTS. LINE HONED. Brush oil galleys. pressure washed. BRUSH OIL GALLEYS. PRESSURE WASHED. BRUSH OIL GALLEYS. PRESSURE WASHED. BRUSH OIL GALLEYS. PRESSURE WASHED. ***** ***** ***** *****
Jun 30, 2020	Service	11,656	Check & Repair Cylinder Block	
Jun 30, 2020	Service	11,656	Pro-level 3 Engine	
Jun 30, 2020	Service	11,656	Discount Program	
Jun 30, 2020	Service	11,656	Dynamometer Test Engine	- - - -

Jun 30, 2020	Service	11,656	Replace Engine	
Jun 30, 2020	Service	11,656	Discount Program	
Jun 30, 2020	Service	11,656	Remove & Install Engine	
Jun 30, 2020	Service			REPAIR PROCESS COMMENTS: MAG CHECK OKAY. NEEDS POLISH.
Jun 30, 2020	Service			REPAIR PROCESS COMMENTS: MAG OK. SMALL LINED ON JOURNAL. BENT 0.15 RC OK 60. NEED HOT TANK, STRAIGHTENED AND POLISH. *****
Dec 19, 2019	Service	11,020	Install Product Link	Customer complaint: CUSTOMER COMPLAINT: Product link not reporting PRODUCT LINK NOT REPORTING Cause of failure: CAUSE OF FAILURE: Software's were not up to date SOFTWARE'S WERE NOT UP TO DATE Resultant damage: RESULTANT DAMAGE: N/A Repair process comments: REPAIR PROCESS COMMENTS: (1995) 11/17/19 arrived at location waited 10 (1995) 11/17/19 ARRIVED AT LOCATION WAITED 10 Minuets to get to machine,operator was loading MINUETS TO GET TO MACHINE,OPERATOR WAS LOADING Trucks. product link not reporting on vision Link. check product link ecm software part LINK. CHECK PRODUCT LINK ECM SOFTWARE PART Number,software needed to be updated .updated Product link pl 300 to newest software part PRODUCT LINK PL 300 TO NEWEST SOFTWARE PART Number 532-4250,once update was successful turned NUMBER 532-4250,ONCE UPDATE WAS SUCCESSFUL TURNED Machine off for 5 minuets. turn machine on and Updated product link radio pl 121 to newest part UPDATED PRODUCT LINK RADIO PL 121 TO NEWEST PART Number 579-8995 update was successful. turned NUMBER 579-8995 UPDATE WAS SUCCESSFUL. TURNED Machine off again and waited 5 minuets. turned MACHINE OFF AGAIN AND WAITED 5 MINUETS. TURNED Machine back on,new software part numbers are Installed .synchronize product link hours and was INSTALLED .SYNCHRONIZE PRODUCT LINK HOURS AND WAS Showing correct operating hours .confirmed SHOWING CORRECT OPERATING HOURS .CONFIRMED Product link was registered .product link is now Reporting. REPORTING.

Dec 19, 2019	Service	11,020	Install Product Link	Customer complaint: CUSTOMER COMPLAINT: Product link not reporting PRODUCT LINK NOT REPORTING Cause of failure: CAUSE OF FAILURE: Software's were not up to date SOFTWARE'S WERE NOT UP TO DATE Resultant damage: RESULTANT DAMAGE: N/A Repair process comments: REPAIR PROCESS COMMENTS: (1995) 11/17/19 arrived at location waited 10 (1995) 11/17/19 ARRIVED AT LOCATION WAITED 10 Minuets to get to machine,operator was loading MINUETS TO GET TO MACHINE,OPERATOR WAS LOADING Trucks. product link not reporting on vision Link. check product link ecm software part LINK. CHECK PRODUCT LINK ECM SOFTWARE PART Number,software needed to be updated .updated Product link pl 300 to newest software part PRODUCT LINK PL 300 TO NEWEST SOFTWARE PART Number 532-4250,once update was successful turned NUMBER 532-4250,ONCE UPDATE WAS SUCCESSFUL TURNED Machine off for 5 minuets. turn machine on and Updated product link radio pl 121 to newest part UPDATED PRODUCT LINK RADIO PL 121 TO NEWEST PART Number 579-8995 update was successful. turned NUMBER 579-8995 UPDATE WAS SUCCESSFUL. TURNED Machine off again and waited 5 minuets. turned MACHINE OFF AGAIN AND WAITED 5 MINUETS. TURNED Machine back on,new software part numbers are Installed .synchronize product link hours and was INSTALLED .SYNCHRONIZE PRODUCT LINK HOURS AND WAS Showing correct operating hours .confirmed SHOWING CORRECT OPERATING HOURS .CONFIRMED Product link was registered .product link is now Reporting. REPORTING.
Sep 12, 2019	Parts			

Dec 20, 2018	Service	9,503	Troubleshoot No Start	<style fontName="Noto">Customer complaint: See instructions above SEE INSTRUCTIONS ABOVE Cause of failure: CAUSE OF FAILURE: Vacuum present in fuel tank. Repair process comments: REPAIR PROCESS COMMENTS: 4764 dec 19, 2018 made the visual, Okay. spoke to richard, and ron about machine. OKAY. SPOKE TO RICHARD, AND RON ABOUT MACHINE. Hooked up et, no codes, or events related to HOOKED UP ET, NO CODES, OR EVENTS RELATED TO Engine quitting. pressurized fuel system at the ENGINE QUITTING. PRESSURIZED FUEL SYSTEM AT THE Tank. no leaks at primary side of system. no TANK. NO LEAKS AT PRIMARY SIDE OF SYSTEM. NO Pinholes. had some wetness at primary fuel bowl PINHOLES. HAD SOME WETNESS AT PRIMARY FUEL BOWL Drain, believe that this was done when ron was DRAIN, BELIEVE THAT THIS WAS DONE WHEN RON WAS Checking this. so not the problem. when i CHECKING THIS. SO NOT THE PROBLEM. WHEN I Removed the fuel cap to put my cap on with REMOVED THE FUEL CAP TO PUT MY CAP ON WITH Testing port, heard a vacuum like sound. the TESTING PORT, HEARD A VACUUM LIKE SOUND. THE Fuel cap is the vented type. blew out the vent FUEL CAP IS THE VENTED TYPE. BLEW OUT THE VENT On fuel cap. these are cheap, customer is Advised to put one on. (#3507735 kit vent), or ADVISED TO PUT ONE ON. (#3507735 KIT VENT), OR Fuel cap assembly (#349-7059). on the secondary FUEL CAP ASSEMBLY (#349-7059). ON THE SECONDARY Fuel filter, removed check, and relief valve. FUEL FILTER, REMOVED CHECK, AND RELIEF VALVE. Blew out tip, okay. while it was out, used BLEW OUT TIP, OKAY. WHILE IT WAS OUT, USED Electric fuel pump at the primary filter, to ELECTRIC FUEL PUMP AT THE PRIMARY FILTER, TO Check the fullness of the secondary fuel filter. CHECK THE FULLNESS OF THE SECONDARY FUEL FILTER. It was full. put back the relief on the IT WAS FULL. PUT BACK THE RELIEF ON THE Secondary filter. with et, started engine. it SECONDARY FILTER. WITH ET, STARTED ENGINE. IT Started right up. fuel pressure is at 90 psi, STARTED RIGHT UP. FUEL PRESSURE IS AT 90 PSI, Good. transfer pump is good. performed a GOOD. TRANSFER PUMP IS GOOD. PERFORMED A Injector cutout test. the result was good. INJECTOR CUTOUT TEST. THE RESULT WAS GOOD. Note: the secondary filter had 9,000.5 hours on NOTE: THE SECONDARY FILTER HAD 9,000.5 HOURS ON It. the machine has 9,503 hours on it. it is IT. THE
Dec 20, 2018	Service	9,503	Travel To/from Job Site	
Nov 26, 2018	Service	1	Weld W/a.r.m.	Part 1u-2406; qty 2; 211" each @ \$1.25/in PART 1U-2406; QTY 2; 211" EACH @ \$1.25/IN Part 3g-6395; qty 2; 96" each @ \$1.25/in PART 3G-6395; QTY 2; 96" EACH @ \$1.25/IN Part 1u-2406; qty 2; 211" each @ \$1.25/in PART 1U-2406; QTY 2; 211" EACH @ \$1.25/IN Part 3g-6395; qty 2; 96" each @ \$1.25/in PART 3G-6395; QTY 2; 96" EACH @ \$1.25/IN
Oct 17, 2018	Parts			
Aug 27, 2018	Service	8,830	Travel To/from Job Site	

Aug 27, 2018	Service	8,830	Troubleshoot Air Conditioner	Customer complaint: CUSTOMER COMPLAINT: A/c not blowing cold Cause of failure: CAUSE OF FAILURE: Failed a/c compressor FAILED A/C COMPRESSOR Resultant damage: RESULTANT DAMAGE: Compressor failed and contaminated system COMPRESSOR FAILED AND CONTAMINATED SYSTEM Repair process comments: Arrived at job. inspected machine. hooked up Gauges and system still had pressure. jumped low GAUGES AND SYSTEM STILL HAD PRESSURE. JUMPED LOW Pressure switch and started machine. engine belt PRESSURE SWITCH AND STARTED MACHINE. ENGINE BELT Started squealing when a/c compressor engaged. STARTED SQUEALING WHEN A/C COMPRESSOR ENGAGED. Recovered system and removed dryer. found metal RECOVERED SYSTEM AND REMOVED DRYER. FOUND METAL In orific tube. informed customer of failure and IN ORIFIC TUBE. INFORMED CUSTOMER OF FAILURE AND Advised that the compressor,condenser,evaporator, ADVISED THAT THE COMPRESSOR,CONDENSER,EVAPORATOR, Dryer, and accumulator be replaced and the lines DRYER, AND ACCUMULATOR BE REPLACED AND THE LINES Be flushed. made a parts list and emailed manager BE FLUSHED. MADE A PARTS LIST AND EMAILED MANAGER To get a quote for the customer. ordered parts . TO GET A QUOTE FOR THE CUSTOMER. ORDERED PARTS . Reassembled machine so they could continue to use REASSEMBLED MACHINE SO THEY COULD CONTINUE TO USE It. job incomplete 8-20-18 IT. JOB INCOMPLETE 8-20-18 Gathered parts and traveled to job. removed fan GATHERED PARTS AND TRAVELED TO JOB. REMOVED FAN Shroud. removed engine belt. disconnected lines SHROUD. REMOVED ENGINE BELT. DISCONNECTED LINES From a/c compressor. removed a/c compressor. FROM A/C COMPRESSOR. REMOVED A/C COMPRESSOR. Installed new compressor. installed new engine INSTALLED NEW COMPRESSOR. INSTALLED NEW ENGINE Belt and pressure switch. disconnected lines to BELT AND PRESSURE SWITCH. DISCONNECTED LINES TO Condenser and removed and installed new CONDENSER AND REMOVED AND INSTALLED NEW Condenser. removed accumulator and dryer and Installed new ones. cleaned out lines and INSTALLED NEW ONES. CLEANED OUT LINES AND Installed new seals. attached lines to compressor INSTALLED NEW SEALS. ATTACHED LINES TO COMPRESSOR Condenser, accumulator and dryer. unbolted seat CONDENSER, ACCUMULATOR AND DRYER. UNBOLTED SEAT And slid forward. removed cab paneling and AND SLID FORWARD. REMOVED CAB PANELING AND Removed hvac box to gain access to evaporator. Removed lines to evaporator and removed cover. REMOVED LINES TO EVAPORATOR AND REMOVED COVER. Pulled old evaporator out and installed new one. Cleaned out lines and reinstalled with new seals. CLEANED OUT LINES AND REINSTALLED WITH NEW SEALS. Pulled a vacuum for 45 minutes. leak test passed. Reassembled cab and charged to 2.6 kg. added oil REASSEMBLED CAB AND CHARGED TO 2.6 KG. ADDED OIL To system started machine and tested a/c.
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A/C. BLOWING Code and 50 degrees at vent. reassembled all CODE AND 50 DEGREES AT VENT. REASSEMBLED ALL Panels and cleaned up job complete 8-21-18 PANELS AND CLEANED UP JOB COMPLETE 8-21-18

Jun 27, 2018	Service	8,557		
Jun 27, 2018	Service	8,557	Weld W/a.r.m.	Part 280-4068; qty 2; 213" each @ \$1.50/in PART 280-4068; QTY 2; 213" EACH @ \$1.50/IN Part 280-4068; qty 2; 213" each @ \$1.50/in PART 280-4068; QTY 2; 213" EACH @ \$1.50/IN
May 21, 2018	Service	8,388	Perform 1000-hour Pm Service	Customer complaint: CUSTOMER COMPLAINT: Perform 1000 hr pm PERFORM 1000 HR PM Repair process comments: Performed 1000 hr pm. samples obtained: engine PERFORMED 1000 HR PM. SAMPLES OBTAINED: ENGINE Oil, transmission oil, coolant, hydraulic, front OIL, TRANSMISSION OIL, COOLANT, HYDRAULIC, FRONT And rear differentials, left and right front Final drives, left and right rear final drives. FINAL DRIVES, LEFT AND RIGHT REAR FINAL DRIVES. Changed: hydraulic oil filters, engine oil and CHANGED: HYDRAULIC OIL FILTERS, ENGINE OIL AND Filter, transmission oil and filter. customer FILTER, TRANSMISSION OIL AND FILTER. CUSTOMER Uses own oil. inspected machine and found a leak USES OWN OIL. INSPECTED MACHINE AND FOUND A LEAK Around the rear output shaft. all fluid levels AROUND THE REAR OUTPUT SHAFT. ALL FLUID LEVELS Are ok. no other concerns present at this time. 1259 5-15-18

Jan 11, 2018	Service	7,626	Install	Customer complaint: CUSTOMER COMPLAINT: Seg: 01 install cat detect for personnel; SEG: 01 INSTALL CAT DETECT FOR PERSONNEL; *****special instructions- m0073624-03 dated: *****SPECIAL INSTRUCTIONS- M0073624-03 DATED: Oct 5, 2016***** si #m0074000 software dated: OCT 5, 2016***** SI #M0074000 SOFTWARE DATED: 9-20-16***** t & a #m0073844 antenna config 9-20-16***** T & A #M0073844 ANTENNA CONFIG Dated: #9-16-16 *****t & a nodes Dated:9-16-16***** DATED:9-16-16***** Repair process comments: 4764 sept 27, 2017 started installing 4764 SEPT 27, 2017 STARTED INSTALLING The cat detect setup as per instructions. had to THE CAT DETECT SETUP AS PER INSTRUCTIONS. HAD TO Put back together, machine needed. PUT BACK TOGETHER, MACHINE NEEDED. 4764 sept 29, 2017 installed fuse holder 4764 SEPT 29, 2017 INSTALLED FUSE HOLDER To ignition 308 yellow behind dash. installed Several splices to install under dash wiring for SEVERAL SPLICES TO INSTALL UNDER DASH WIRING FOR Alarm box on top of dash. this is complete. ALARM BOX ON TOP OF DASH. THIS IS COMPLETE. 4764 oct 28, 2017 removed rear fan 4764 OCT 28, 2017 REMOVED REAR FAN Guard, installed fabricated plate on inside, and Welded to it. mounted outside plate, drilled WELDED TO IT. MOUNTED OUTSIDE PLATE, DRILLED HOLES, and mounted to welded plate. drilled HOLES, AND MOUNTED TO WELDED PLATE. DRILLED HOLES for antenna box, and mounted to outer plate With 3/8" bolts. drilled holes for rear alarm, WITH 3/8" BOLTS. DRILLED HOLES FOR REAR ALARM, And mounted with small 1/8" bolts. AND MOUNTED WITH SMALL 1/8" BOLTS. 4764 nov 25 2017 layed wiring 4764 NOV 25 2017 LAYED WIRING Fabricated wiring harness from rear antenna box, FABRICATED WIRING HARNESS FROM REAR ANTENNA BOX, Along main harness on right side of machine, up ALONG MAIN HARNESS ON RIGHT SIDE OF MACHINE, UP To connecting location. opened electrical bay, This would be extra, and would have to drill more THIS WOULD BE EXTRA, AND WOULD HAVE TO DRILL MORE Holes. found another location at connector 32,34 HOLES. FOUND ANOTHER LOCATION AT CONNECTOR 32,34 Pin, #1 using 164 white. used splices, and fuse PIN, #1 USING 164 WHITE. USED SPLICES, AND FUSE Holder at this location, and supplied power, Ground, to rear antenna box, and alarm. tried to GROUND, TO REAR ANTENNA BOX, AND ALARM. TRIED TO Perform the procedures as per instructions. this PERFORM THE PROCEDURES AS PER INSTRUCTIONS. THIS Did not happen as expected. antenna DID NOT HAPPEN AS EXPECTED. ANTENNA Configuration, nodes pairing, dongle view, Configuration settings could not be done as CONFIGURATION SETTINGS COULD NOT BE DONE AS Expected. used vest, hard hat with nodes to EXPECTED. USED VEST, HARD HAT WITH NODES TO Ensure alarm would go off. job done. ENSURE ALARM WOULD GO OFF. JOB DONE.
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Jan 10, 2018	Service	7,626	Install	Customer complaint: CUSTOMER COMPLAINT: Seg: 01 install cat detect for personnel; SEG: 01 INSTALL CAT DETECT FOR PERSONNEL; *****special instructions- m0073624-03 dated: *****SPECIAL INSTRUCTIONS- M0073624-03 DATED: Oct 5, 2016***** si #m0074000 software dated: OCT 5, 2016***** SI #M0074000 SOFTWARE DATED: 9-20-16***** t & a #m0073844 antenna config 9-20-16***** T & A #M0073844 ANTENNA CONFIG Dated: #9-16-16 *****t & a nodes Dated:9-16-16***** DATED:9-16-16***** Repair process comments: 4764 sept 27, 2017 started installing 4764 SEPT 27, 2017 STARTED INSTALLING The cat detect setup as per instructions. had to THE CAT DETECT SETUP AS PER INSTRUCTIONS. HAD TO Put back together, machine needed. PUT BACK TOGETHER, MACHINE NEEDED. 4764 sept 29, 2017 installed fuse holder 4764 SEPT 29, 2017 INSTALLED FUSE HOLDER To ignition 308 yellow behind dash. installed Several splices to install under dash wiring for SEVERAL SPLICES TO INSTALL UNDER DASH WIRING FOR Alarm box on top of dash. this is complete. ALARM BOX ON TOP OF DASH. THIS IS COMPLETE. 4764 oct 28, 2017 removed rear fan 4764 OCT 28, 2017 REMOVED REAR FAN Guard, installed fabricated plate on inside, and Welded to it. mounted outside plate, drilled WELDED TO IT. MOUNTED OUTSIDE PLATE, DRILLED HOLES, and mounted to welded plate. drilled HOLES, AND MOUNTED TO WELDED PLATE. DRILLED HOLES for antenna box, and mounted to outer plate With 3/8" bolts. drilled holes for rear alarm, WITH 3/8" BOLTS. DRILLED HOLES FOR REAR ALARM, And mounted with small 1/8" bolts. AND MOUNTED WITH SMALL 1/8" BOLTS. 4764 nov 25 2017 layed wiring 4764 NOV 25 2017 LAYED WIRING Fabricated wiring harness from rear antenna box, FABRICATED WIRING HARNESS FROM REAR ANTENNA BOX, Along main harness on right side of machine, up ALONG MAIN HARNESS ON RIGHT SIDE OF MACHINE, UP To connecting location. opened electrical bay, This would be extra, and would have to drill more THIS WOULD BE EXTRA, AND WOULD HAVE TO DRILL MORE Holes. found another location at connector 32,34 HOLES. FOUND ANOTHER LOCATION AT CONNECTOR 32,34 Pin, #1 using 164 white. used splices, and fuse PIN, #1 USING 164 WHITE. USED SPLICES, AND FUSE Holder at this location, and supplied power, Ground, to rear antenna box, and alarm. tried to GROUND, TO REAR ANTENNA BOX, AND ALARM. TRIED TO Perform the procedures as per instructions. this PERFORM THE PROCEDURES AS PER INSTRUCTIONS. THIS Did not happen as expected. antenna DID NOT HAPPEN AS EXPECTED. ANTENNA Configuration, nodes pairing, dongle view, Configuration settings could not be done as CONFIGURATION SETTINGS COULD NOT BE DONE AS Expected. used vest, hard hat with nodes to EXPECTED. USED VEST, HARD HAT WITH NODES TO Ensure alarm would go off. job done. ENSURE ALARM WOULD GO OFF. JOB DONE.
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Dec 29, 2017	Service	7,626	Install	Customer complaint: CUSTOMER COMPLAINT: Seg: 01 install cat detect for personnel; SEG: 01 INSTALL CAT DETECT FOR PERSONNEL; *****special instructions- m0073624-03 dated: *****SPECIAL INSTRUCTIONS- M0073624-03 DATED: Oct 5, 2016***** si #m0074000 software dated: OCT 5, 2016***** SI #M0074000 SOFTWARE DATED: 9-20-16***** t & a #m0073844 antenna config 9-20-16***** T & A #M0073844 ANTENNA CONFIG Dated: #9-16-16 *****t & a nodes Dated:9-16-16***** DATED:9-16-16***** Repair process comments: 4764 sept 27, 2017 started installing 4764 SEPT 27, 2017 STARTED INSTALLING The cat detect setup as per instructions. had to THE CAT DETECT SETUP AS PER INSTRUCTIONS. HAD TO Put back together, machine needed. PUT BACK TOGETHER, MACHINE NEEDED. 4764 sept 29, 2017 installed fuse holder 4764 SEPT 29, 2017 INSTALLED FUSE HOLDER To ignition 308 yellow behind dash. installed Several splices to install under dash wiring for SEVERAL SPLICES TO INSTALL UNDER DASH WIRING FOR Alarm box on top of dash. this is complete. ALARM BOX ON TOP OF DASH. THIS IS COMPLETE. 4764 oct 28, 2017 removed rear fan 4764 OCT 28, 2017 REMOVED REAR FAN Guard, installed fabricated plate on inside, and Welded to it. mounted outside plate, drilled WELDED TO IT. MOUNTED OUTSIDE PLATE, DRILLED HOLES, and mounted to welded plate. drilled HOLES, AND MOUNTED TO WELDED PLATE. DRILLED HOLES for antenna box, and mounted to outer plate With 3/8" bolts. drilled holes for rear alarm, WITH 3/8" BOLTS. DRILLED HOLES FOR REAR ALARM, And mounted with small 1/8" bolts. AND MOUNTED WITH SMALL 1/8" BOLTS. 4764 nov 25 2017 layed wiring 4764 NOV 25 2017 LAYED WIRING Fabricated wiring harness from rear antenna box, FABRICATED WIRING HARNESS FROM REAR ANTENNA BOX, Along main harness on right side of machine, up ALONG MAIN HARNESS ON RIGHT SIDE OF MACHINE, UP To connecting location. opened electrical bay, This would be extra, and would have to drill more THIS WOULD BE EXTRA, AND WOULD HAVE TO DRILL MORE Holes. found another location at connector 32,34 HOLES. FOUND ANOTHER LOCATION AT CONNECTOR 32,34 Pin, #1 using 164 white. used splices, and fuse PIN, #1 USING 164 WHITE. USED SPLICES, AND FUSE Holder at this location, and supplied power, Ground, to rear antenna box, and alarm. tried to GROUND, TO REAR ANTENNA BOX, AND ALARM. TRIED TO Perform the procedures as per instructions. this PERFORM THE PROCEDURES AS PER INSTRUCTIONS. THIS Did not happen as expected. antenna DID NOT HAPPEN AS EXPECTED. ANTENNA Configuration, nodes pairing, dongle view, Configuration settings could not be done as CONFIGURATION SETTINGS COULD NOT BE DONE AS Expected. used vest, hard hat with nodes to EXPECTED. USED VEST, HARD HAT WITH NODES TO Ensure alarm would go off. job done. ENSURE ALARM WOULD GO OFF. JOB DONE.
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Dec 15, 2017	Service	7,696	Perform 500-hour Pm Service	Customer complaint: Perform 500 hr pm PERFORM 500 HR PM Repair process comments: REPAIR PROCESS COMMENTS: Samples obtained: engine oil, hydraulic oil, Transmission fluid, coolant, front differential, TRANSMISSION FLUID, COOLANT, FRONT DIFFERENTIAL, Rear differential. changed: engine oil and REAR DIFFERENTIAL. CHANGED: ENGINE OIL AND Filter, fuel/water separator, secondary fuel FILTER, FUEL/WATER SEPARATOR, SECONDARY FUEL Filter, transmission filter, and implement FILTER, TRANSMISSION FILTER, AND IMPLEMENT Filter. machine is in good operating condition. FILTER. MACHINE IS IN GOOD OPERATING CONDITION. No other concerns are present at this itme. NO OTHER CONCERNS ARE PRESENT AT THIS ITME. Note: customer supplies own oil.
Sep 27, 2017	Service	7,307	Supply Oil	

Sep 27, 2017	Service	7,307	Perform 2000-hour Pm Service	Customer complaint: Perfrom 2000 hr pm service PERFROM 2000 HR PM SERVICE Repair process comments: REPAIR PROCESS COMMENTS: Performed 2000 hr service. samples obtained: Egnine oil, hydraulic oil, coolant, transmission EGNINE OIL, HYDRAULIIC OIL, COOLANT, TRANSMISSION Oil, front and rear differentials. fluids Changed: engine oil, transmission fluid, front And rear differential/ final drive fluids. AND REAR DIFFERENTIAL/ FINAL DRIVE FLUIDS. Filters changed: hydraulic filters, engine oil FILTERS CHANGED: HYDRAULIC FILTERS, ENGINE OIL Filter, fuel water separator, fuel filter, FILTER, FUEL WATER SEPARATOR, FUEL FILTER, Transmission filter. visually insepcted machine TRANSMISSION FILTER. VISUALLY INSEPCTED MACHINE And found no signs of leaks or broken parts. AND FOUND NO SIGNS OF LEAKS OR BROKEN PARTS. Machine is in good operating condition. per Customer request, customer supplied fluids were CUSTOMER REQUEST, CUSTOMER SUPPLIED FLUIDS WERE Used except for the rear differential and final USED EXCEPT FOR THE REAR DIFFERENTIAL AND FINAL Drives as the customer lacked the quantity of DRIVES AS THE CUSTOMER LACKED THE QUANTITY OF Customer supplied fluids to fill rear CUSTOMER SUPPLIED FLUIDS TO FILL REAR Differential and final drives. cat tdto 50w (50 Gal) was used to fill rear differential. air was GAL) WAS USED TO FILL REAR DIFFERENTIAL. AIR WAS Bled from fuel system after all new fluids and BLED FROM FUEL SYSTEM AFTER ALL NEW FLUIDS AND Filters were installed. machine was started and FILTERS WERE INSTALLED. MACHINE WAS STARTED AND Ran well. machine was inspected for leaks after RAN WELL. MACHINE WAS INSPECTED FOR LEAKS AFTER Starting and no leaks were found. a function test Was performed on the machine and all functions WAS PERFORMED ON THE MACHINE AND ALL FUNCTIONS Work properly. no codes were found on machine. no WORK PROPERLY. NO CODES WERE FOUND ON MACHINE. NO Other concerns are present at this time. OTHER CONCERNS ARE PRESENT AT THIS TIME.
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Jun 22, 2017	Service	6,951	Troubleshoot & Repair Engine Miss	Customer complaint: CUSTOMER COMPLAINT: Engine running rough ENGINE RUNNING ROUGH Cause of failure: Unknown Resultant damage: RESULTANT DAMAGE: Operator states low power OPERATOR STATES LOW POWER Repair process comments: REPAIR PROCESS COMMENTS: Arrived at machine. spoke with operator and said ARRIVED AT MACHINE. SPOKE WITH OPERATOR AND SAID He noticed the engine running rough yesterday Before the shift ended after running the machine BEFORE THE SHIFT ENDED AFTER RUNNING THE MACHINE Hard. started machine listen for any issue with HARD. STARTED MACHINE LISTEN FOR ANY ISSUE WITH The engine heard no missing fire. hooked up et THE ENGINE HEARD NO MISSING FIRE. HOOKED UP ET Had to engine related codes. performed cylinder HAD TO ENGINE RELATED CODES. PERFORMED CYLINDER Performance test and it passed. manually cutout All 6 injectors and all 6 were heard cutting out. ALL 6 INJECTORS AND ALL 6 WERE HEARD CUTTING OUT. Operator stated the machine needs to be hot. he OPERATOR STATED THE MACHINE NEEDS TO BE HOT. HE Ran the machine hard and brought the machine over RAN THE MACHINE HARD AND BROUGHT THE MACHINE OVER To me and said the noise was coming back again. TO ME AND SAID THE NOISE WAS COMING BACK AGAIN. Hooked up et and did another cylinder performance HOOKED UP ET AND DID ANOTHER CYLINDER PERFORMANCE Test and it passed. mark the general manager said TEST AND IT PASSED. MARK THE GENERAL MANAGER SAID To wait for the issue to develop. job complete. TO WAIT FOR THE ISSUE TO DEVELOP. JOB COMPLETE. 1071 6-21-17 1071 6-21-17
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Jun 07, 2017	Service	6,867	Perform 500-hour Pm Service	Customer complaint: CUSTOMER COMPLAINT: Customer request 500 pm service CUSTOMER REQUEST 500 PM SERVICE Cause of failure: CAUSE OF FAILURE: N/a N/A Resultant damage: RESULTANT DAMAGE: N/a N/A Repair process comments: REPAIR PROCESS COMMENTS: Performed 500 pm service using customer supplied PERFORMED 500 PM SERVICE USING CUSTOMER SUPPLIED Fluids. changed all external hydraulic oil FLUIDS. CHANGED ALL EXTERNAL HYDRAULIC OIL Filters, engine oil filter, fuel filters, and FILTERS, ENGINE OIL FILTER, FUEL FILTERS, AND Transmission filters with cat filters. engine oil TRANSMISSION FILTERS WITH CAT FILTERS. ENGINE OIL Was changed and refilled with customer supplied WAS CHANGED AND REFILLED WITH CUSTOMER SUPPLIED Engine oil. oil samples were taken from: engine, ENGINE OIL. OIL SAMPLES WERE TAKEN FROM: ENGINE, Transmission, hydraulic, coolant, front TRANSMISSION, HYDRAULIC, COOLANT, FRONT Differential, front right final drive, front left DIFFERENTIAL, FRONT RIGHT FINAL DRIVE, FRONT LEFT Final drive, rear differential, right rear final Drive, and left rear final drive compartments. DRIVE, AND LEFT REAR FINAL DRIVE COMPARTMENTS. Afer inspection machine was found to be in good AFER INSPECTION MACHINE WAS FOUND TO BE IN GOOD Working order. no concerns present at this time. WORKING ORDER. NO CONCERNS PRESENT AT THIS TIME. Customer supplies fluids CUSTOMER SUPPLIES FLUIDS
Sep 21, 2016	Service	1	Weld W/a.r.m.	Customer complaint: Weld a.r.m. WELD A.R.M. Cause of failure: CAUSE OF FAILURE: N/A Resultant damage: N/A Repair process comments: REPAIR PROCESS COMMENTS: Set all parts on pallets to prep for sandblast. SET ALL PARTS ON PALLETS TO PREP FOR SANDBLAST. Sandblast all parts to prep for a.r.m. weld Process. set all parts on a.r.m. weld table. PROCESS. SET ALL PARTS ON A.R.M. WELD TABLE. Begin a.r.m. weld process. part number 1u-2406 BEGIN A.R.M. WELD PROCESS. PART NUMBER 1U-2406 (qty: 2) recieved 306" inches of a.r.m. weld per (QTY: 2) RECIEVED 306" INCHES OF A.R.M. WELD PER Part. part number 3g-6395 (qty: 2) recieved PART. PART NUMBER 3G-6395 (QTY: 2) RECIEVED 108" inches of a.r.m. weld per part. total 108" INCHES OF A.R.M. WELD PER PART. TOTAL Amount applied was 828" inches of a.r.m. weld. AMOUNT APPLIED WAS 828" INCHES OF A.R.M. WELD. Part number 1u-2406 (qty: 2) received 306 inches Part number 3g-6395 (qty: 2) received 108 inches PART NUMBER 3G-6395 (QTY: 2) RECEIVED 108 INCHES Total inches received:828 @ \$1.25= \$1035

Sep 21, 2016	Service	1	Weld W/a.r.m.	Customer complaint: Weld a.r.m. WELD A.R.M. Cause of failure: CAUSE OF FAILURE: N/A Resultant damage: N/A Repair process comments: REPAIR PROCESS COMMENTS: Set all parts on pallets to prep for sandblast. SET ALL PARTS ON PALLETS TO PREP FOR SANDBLAST. Sandblast all parts to prep for a.r.m. weld Process. set all parts on a.r.m. weld table. PROCESS. SET ALL PARTS ON A.R.M. WELD TABLE. Begin a.r.m. weld process. part number 1u-2406 BEGIN A.R.M. WELD PROCESS. PART NUMBER 1U-2406 (qty: 2) recieved 306" inches of a.r.m. weld per (QTY: 2) RECIEVED 306" INCHES OF A.R.M. WELD PER Part. part number 3g-6395 (qty: 2) recieved PART. PART NUMBER 3G-6395 (QTY: 2) RECIEVED 108" inches of a.r.m. weld per part. total 108" INCHES OF A.R.M. WELD PER PART. TOTAL Amount applied was 828" inches of a.r.m. weld. AMOUNT APPLIED WAS 828" INCHES OF A.R.M. WELD. Part number 1u-2406 (qty: 2) received 306 inches Part number 3g-6395 (qty: 2) received 108 inches PART NUMBER 3G-6395 (QTY: 2) RECEIVED 108 INCHES Total inches received:828 @ \$1.25= \$1035
Sep 21, 2016	Service	1	Weld W/a.r.m.	Customer complaint: Weld a.r.m. WELD A.R.M. Cause of failure: CAUSE OF FAILURE: N/A Resultant damage: N/A Repair process comments: REPAIR PROCESS COMMENTS: Set all parts on pallets to prep for sandblast. SET ALL PARTS ON PALLETS TO PREP FOR SANDBLAST. Sandblast all parts to prep for a.r.m. weld Process. set all parts on a.r.m. weld table. PROCESS. SET ALL PARTS ON A.R.M. WELD TABLE. Begin a.r.m. weld process. part number 1u-2406 BEGIN A.R.M. WELD PROCESS. PART NUMBER 1U-2406 (qty: 2) recieved 306" inches of a.r.m. weld per (QTY: 2) RECIEVED 306" INCHES OF A.R.M. WELD PER Part. part number 3g-6395 (qty: 2) recieved PART. PART NUMBER 3G-6395 (QTY: 2) RECIEVED 108" inches of a.r.m. weld per part. total 108" INCHES OF A.R.M. WELD PER PART. TOTAL Amount applied was 828" inches of a.r.m. weld. AMOUNT APPLIED WAS 828" INCHES OF A.R.M. WELD. Part number 1u-2406 (qty: 2) received 306 inches Part number 3g-6395 (qty: 2) received 108 inches PART NUMBER 3G-6395 (QTY: 2) RECEIVED 108 INCHES Total inches received:828 @ \$1.25= \$1035

Jul 25, 2016	Service	5,536	Perform 500-hour Pm Service	Customer complaint: CUSTOMER COMPLAINT: 500 hour service 500 HOUR SERVICE Repair process comments: 7-15-16 (1071) performed 500 hour service on 7-15-16 (1071) PERFORMED 500 HOUR SERVICE ON Machine. arrived at job at 1:35 pm and checked in MACHINE. ARRIVED AT JOB AT 1:35 PM AND CHECKED IN With customer. started pulling samples, took WITH CUSTOMER. STARTED PULLING SAMPLES, TOOK Samples of engine, coolant, transmission, SAMPLES OF ENGINE, COOLANT, TRANSMISSION, Hydraulic, front diff and front finals, rear diff HYDRAULIC, FRONT DIFF AND FRONT FINALS, REAR DIFF And rear finals. drained engine oil and changed AND REAR FINALS. DRAINED ENGINE OIL AND CHANGED Engine oil filter, fuel filters water and ENGINE OIL FILTER, FUEL FILTERS WATER AND Primary, pilot hydraulic filter, and transmission PRIMARY, PILOT HYDRAULIC FILTER, AND TRANSMISSION Filter, changed air filter indacator, and FILTER, CHANGED AIR FILTER INDACATOR, AND Installed a new breather on the fuel cap. INSTALLED A NEW BREATHER ON THE FUEL CAP. Customer used their oil and he filled the engine CUSTOMER USED THEIR OIL AND HE FILLED THE ENGINE With oil. started engine and checked for leaks. WITH OIL. STARTED ENGINE AND CHECKED FOR LEAKS. Shut down and checked engine oil level topped off Engine oil. checked hydraulic level, it was withn ENGINE OIL. CHECKED HYDRAULIC LEVEL, IT WAS WITHN Sight glass. started machine again and checked SIGHT GLASS. STARTED MACHINE AGAIN AND CHECKED Transmission oil, level was within sight glass. ***** noticed there were a couple of wet hydraulic ***** NOTICED THERE WERE A COUPLE OF WET HYDRAULIC Hoses. two on the hydraulic pilot filter housing HOSES. TWO ON THE HYDRAULIC PILOT FILTER HOUSING And one hose was wet on the left steering AND ONE HOSE WAS WET ON THE LEFT STEERING Cylinder. informed customer of issue and he said CYLINDER. INFORMED CUSTOMER OF ISSUE AND HE SAID He would keep an eye on them as they are not HE WOULD KEEP AN EYE ON THEM AS THEY ARE NOT Leaking yet. customer took the machine and i LEAKING YET. CUSTOMER TOOK THE MACHINE AND I Cleaned up my work area and loaed the lube truck CLEANED UP MY WORK AREA AND LOAED THE LUBE TRUCK Up. customer took care of oil and filters. left The job site at 5:00 pm and arrived at the shop THE JOB SITE AT 5:00 PM AND ARRIVED AT THE SHOP 5:50 due to traffic. 5:50 DUE TO TRAFFIC.
Jul 25, 2016	Service	5,536	Travel To/from Job Site	Repair process comments: REPAIR PROCESS COMMENTS: Drove to newmans and sons job site 12 miles and DROVE TO NEWMANS AND SONS JOB SITE 12 MILES AND Drove back to shop once service was complete Another 12 miles total of 24 miles. 1071 7-15-16 ANOTHER 12 MILES TOTAL OF 24 MILES. 1071 7-15-16

Feb 26, 2016	Service	2,000	Perform 2000-hour Pm Service	Customer complaint: CUSTOMER COMPLAINT: Perform 2000hr service Repair process comments: REPAIR PROCESS COMMENTS: Drove to jobsite , met with customer, unit was Inside their shop , first took samples of all the INSIDE THEIR SHOP , FIRST TOOK SAMPLES OF ALL THE Fluids, then drained diff, trans, engine, and FLUIDS, THEN DRAINED DIFF, TRANS, ENGINE, AND Hydraulic oil. removed filters and installed new HYDRAULIC OIL. REMOVED FILTERS AND INSTALLED NEW Filters . customer supplied all oils , fill back FILTERS . CUSTOMER SUPPLIED ALL OILS , FILL BACK Components with new oil , ran unit to verify COMPONENTS WITH NEW OIL , RAN UNIT TO VERFIY Operation. unit ran with no issues, unit had no OPERATION. UNIT RAN WITH NO ISSUES, UNIT HAD NO Leaks. unit is ready for customer. LEAKS. UNIT IS READY FOR CUSTOMER.
Dec 08, 2015	Service	1	Travel To/from Job Site	Location: 9005 bradley ave, sun valley 91353 LOCATION: 9005 BRADLEY AVE, SUN VALLEY 91353

FLUID ANALYSIS (120 Records)

Nov 15, 2024	No Action Required	19,202	Engine	ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Nov 15, 2024	No Action Required	19,202	Final Drive Front Right	ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Nov 15, 2024	No Action Required	19,202	Final Drive Rear Left	ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Nov 15, 2024	No Action Required	19,202	Final Drive Front Left	ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Nov 15, 2024	No Action Required	19,202	Final Drive Rear Right	ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Nov 15, 2024	No Action Required	19,202	Transmission	ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Nov 15, 2024	No Action Required	19,202	Differential Rear	ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Nov 15, 2024	Monitor	19,202	Hydraulic System	CHROME IS ELEVATED AND MAY INDICATE CYLINDER RODS WEAR. 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.
Nov 15, 2024	No Action Required	19,202	Final Drive Front Right	ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.

Aug 23, 2024	 No Action Required	18,830	Final Drive Rear Left	UNKNOWN HOURS ON THE OIL. ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Aug 23, 2024	 No Action Required	18,830	Final Drive Front Left	UNKNOWN HOURS ON THE OIL. ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Aug 23, 2024	 No Action Required	18,830	Differential Rear	UNKNOWN HOURS ON THE OIL. ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Aug 23, 2024	 No Action Required	18,830	Final Drive Rear Right	UNKNOWN HOURS ON THE OIL. ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Aug 23, 2024	 No Action Required	18,830	Differential Front	UNKNOWN HOURS ON THE OIL. ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Aug 23, 2024	 Monitor	18,830	Engine	UNKNOWN HOURS ON THE OIL. IRON IS ELEVATED AND MAY INDICATE CYLINDER WEAR. 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 23, 2024	 Monitor	18,830	Hydraulic System	UNKNOWN HOURS ON THE OIL. CHROME IS ELEVATED AND MAY INDICATE CYLINDER RODS 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. E-MAILED RESULTS TO SERVICE BRANCH
Aug 23, 2024	 No Action Required	18,830	Differential Rear	UNKNOWN HOURS ON THE OIL. ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.

Aug 23, 2024	 No Action Required	18,830	Final Drive Rear Left	UNKNOWN HOURS ON THE OIL. ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Aug 23, 2024	 No Action Required	18,830	Final Drive Front Right	UNKNOWN HOURS ON THE OIL. ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Aug 23, 2024	 No Action Required	18,830	Transmission	UNKNOWN HOURS ON THE OIL. ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Aug 23, 2024	 No Action Required	18,830	Transmission	UNKNOWN HOURS ON THE OIL. ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Aug 23, 2024	 No Action Required	18,830	Final Drive Front Left	UNKNOWN HOURS ON THE OIL. ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Aug 23, 2024	 No Action Required	18,830	Final Drive Front Right	UNKNOWN HOURS ON THE OIL. ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Aug 23, 2024	 No Action Required	18,830	Final Drive Rear Right	UNKNOWN HOURS ON THE OIL. ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Aug 23, 2024	 No Action Required	18,830	Differential Front	UNKNOWN HOURS ON THE OIL. ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.

Aug 23, 2024	● Monitor	18,830	Hydraulic System	UNKNOWN HOURS ON THE OIL. CHROME IS ELEVATED AND MAY INDICATE CYLINDER RODS 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. E-MAILED RESULTS TO SERVICE BRANCH
Aug 23, 2024	● Monitor	18,830	Engine	UNKNOWN HOURS ON THE OIL. IRON IS ELEVATED AND MAY INDICATE CYLINDER WEAR. 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.
Jul 23, 2024	● No Action Required	18,546	Differential Rear	UNKNOWN HOURS ON THE OIL. ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Jul 23, 2024	● No Action Required	18,546	Final Drive Rear Right	UNKNOWN HOURS ON THE OIL. ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Jul 23, 2024	● No Action Required	18,546	Transmission	UNKNOWN HOURS ON THE OIL. ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Jul 23, 2024	● Monitor	18,546	Hydraulic System	UNKNOWN HOURS ON THE OIL. CHROME IS ELEVATED AND MAY INDICATE CYLINDER RODS WEAR. ALL OTHER ANALYSIS READINGS APPEAR NORMAL. CUT OPEN FILTER(S) AND INSPECT FOR DEBRIS. RESAMPLE IN 250 HOURS TO MONITOR.
Jul 23, 2024	● No Action Required	18,546	Final Drive Rear Left	UNKNOWN HOURS ON THE OIL. ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.

Jul 23, 2024	 No Action Required	18,546	Differential Front	UNKNOWN HOURS ON THE OIL. ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Jul 23, 2024	 No Action Required	18,546	Final Drive Front Right	UNKNOWN HOURS ON THE OIL. ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Jul 23, 2024	 No Action Required	18,546	Engine	UNKNOWN HOURS ON THE OIL. ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Jul 23, 2024	 No Action Required	18,546	Engine	UNKNOWN HOURS ON THE OIL. ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Jul 23, 2024	 No Action Required	18,546	Final Drive Front Left	UNKNOWN HOURS ON THE OIL. ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Jun 21, 2024	 Monitor	18,229	Hydraulic System	CHROME IS ELEVATED AND MAY INDICATE CYLINDER RODS WEAR. ALL OTHER ANALYSIS READINGS APPEAR NORMAL. CUT OPEN FILTER(S) AND INSPECT FOR DEBRIS. RESAMPLE IN 250 HOURS TO MONITOR.
Jun 21, 2024	 No Action Required	18,229	Final Drive Front Left	UNKNOWN HOURS ON THE OIL. ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Jun 21, 2024	 No Action Required	18,229	Final Drive Rear Right	UNKNOWN HOURS ON THE OIL. ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.

Jun 21, 2024	 No Action Required	18,229	Final Drive Front Right	UNKNOWN HOURS ON THE OIL. ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Jun 21, 2024	 No Action Required	18,229	Final Drive Rear Right	UNKNOWN HOURS ON THE OIL. ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Jun 21, 2024	 No Action Required	18,229	Transmission	ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Jun 21, 2024	 No Action Required	18,229	Final Drive Rear Left	UNKNOWN HOURS ON THE OIL. ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Jun 21, 2024	 No Action Required	18,229	Transmission	ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Jun 21, 2024	 No Action Required	18,229	Final Drive Front Left	UNKNOWN HOURS ON THE OIL. ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Jun 21, 2024	 No Action Required	18,229	Final Drive Rear Left	UNKNOWN HOURS ON THE OIL. ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Jun 21, 2024	 No Action Required	18,229	Final Drive Front Right	UNKNOWN HOURS ON THE OIL. ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Jun 21, 2024	 No Action Required	18,229	Engine	ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.

Jun 21, 2024	 Monitor	18,229	Hydraulic System	CHROME IS ELEVATED AND MAY INDICATE CYLINDER RODS WEAR. ALL OTHER ANALYSIS READINGS APPEAR NORMAL. CUT OPEN FILTER(S) AND INSPECT FOR DEBRIS. RESAMPLE IN 250 HOURS TO MONITOR.
May 24, 2024	 No Action Required	17,939	Final Drive Rear Right	UNKNOWN HOURS ON THE OIL. ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
May 24, 2024	 No Action Required	17,939	Engine	UNKNOWN HOURS ON THE OIL. ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
May 24, 2024	 No Action Required	17,939	Differential Rear	UNKNOWN HOURS ON THE OIL. ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
May 24, 2024	 No Action Required	17,939	Differential Front	UNKNOWN HOURS ON THE OIL. ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
May 24, 2024	 No Action Required	17,939	Final Drive Rear Left	UNKNOWN HOURS ON THE OIL. ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
May 24, 2024	 No Action Required	17,939	Transmission	UNKNOWN HOURS ON THE OIL. ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
May 24, 2024	 No Action Required	17,939	Final Drive Front Right	UNKNOWN HOURS ON THE OIL. ALL TESTS APPEAR NORMAL. MORE SAMPLE HISTORY NEEDED TO ESTABLISH A NORMAL WEAR TREND. CONTINUE SAMPLING AT NORMAL INTERVAL.

May 24, 2024	 Monitor	17,939	Hydraulic System	UNKNOWN HOURS ON THE OIL. CHROME IS ELEVATED AND MAY INDICATE CYLINDER RODS WEAR. ALL OTHER ANALYSIS READINGS APPEAR NORMAL. CUT OPEN FILTER(S) AND INSPECT FOR DEBRIS. RESAMPLE IN 250 HOURS TO MONITOR.
May 24, 2024	 No Action Required	17,939	Final Drive Front Left	UNKNOWN HOURS ON THE OIL. ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Feb 08, 2024	 No Action Required	17,437	Differential Rear	UNKNOWN HOURS ON THE OIL. VISCOSITY IS LOW FOR A 50.PLEASE CONFIRM WT. OF OIL BEING USED IN THIS COMPARTMENT. ALL OTHER ANALYSIS READINGS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Feb 08, 2024	 No Action Required	17,437	Wheel Hub Front Right	UNKNOWN HOURS ON THE OIL. ALL TESTS APPEAR NORMAL. MORE SAMPLE HISTORY NEEDED TO ESTABLISH A NORMAL WEAR TREND. CONTINUE SAMPLING AT NORMAL INTERVAL.
Feb 08, 2024	 No Action Required	17,437	Hydraulic System	ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Feb 08, 2024	 No Action Required	17,437	Transmission	ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Feb 08, 2024	 No Action Required	17,437	Wheel Hub Rear Left	UNKNOWN HOURS ON THE OIL. ALL TESTS APPEAR NORMAL. MORE SAMPLE HISTORY NEEDED TO ESTABLISH A NORMAL WEAR TREND. CONTINUE SAMPLING AT NORMAL INTERVAL.
Feb 08, 2024	 No Action Required	17,437	Final Drive Front Left	UNKNOWN HOURS ON THE OIL. VISCOSITY IS LOW FOR A 50.PLEASE CONFIRM WT. OF OIL BEING USED IN THIS COMPARTMENT. ALL OTHER ANALYSIS READINGS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.

Feb 08, 2024	 No Action Required	17,437	Differential Front	VISCOSITY IS LOW FOR A 50.PLEASE CONFIRM WT. OF OIL BEING USED IN THIS COMPARTMENT. ALL OTHER ANALYSIS READINGS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Feb 08, 2024	 No Action Required	17,437	Wheel Hub Rear Right	UNKNOWN HOURS ON THE OIL. ALL TESTS APPEAR NORMAL. MORE SAMPLE HISTORY NEEDED TO ESTABLISH A NORMAL WEAR TREND. CONTINUE SAMPLING AT NORMAL INTERVAL.
Feb 08, 2024	 No Action Required	17,437	Engine	ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Jul 26, 2023	 No Action Required	16,738	Differential Rear	UNKNOWN HOURS ON THE OIL. ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Jul 26, 2023	 Monitor	16,738	Hydraulic System	UNKNOWN HOURS ON THE OIL. IRON AND CHROME ARE ELEVATED AND MAY INDICATE CYLINDER RODS WEAR. ALL OTHER ANALYSIS READINGS APPEAR NORMAL. CUT OPEN FILTER(S) AND INSPECT FOR DEBRIS. THE OIL WAS CHANGED. RESAMPLE IN 250 HOURS TO MONITOR.
Jul 26, 2023	 No Action Required	16,738	Differential Front	UNKNOWN HOURS ON THE OIL. ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Jul 26, 2023	 No Action Required	16,738	Transmission	ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Jul 26, 2023	 Monitor	16,738	Engine	UNKNOWN HOURS ON THE OIL. 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.

Dec 31, 2022	 Monitor	16,031	Hydraulic System	CHROME IS ELEVATED AND MAY INDICATE CYLINDER RODS 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.
Dec 31, 2022	 No Action Required	16,031	Transmission	ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Dec 31, 2022	 No Action Required	16,031	Engine	UNKNOWN HOURS ON THE OIL. ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Aug 26, 2022	 No Action Required	15,475	Engine	ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Aug 26, 2022	 No Action Required	15,475	Transmission	ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Aug 26, 2022	 Monitor	15,475	Hydraulic System	PARTICLE COUNT IS ELEVATED. CHROME IS ELEVATED AND MAY INDICATE CYLINDER RODS 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.
Jul 09, 2022	 No Action Required	15,229	Engine	ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Jun 21, 2022	 No Action Required	14,990	Transmission	ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
May 21, 2022	 No Action Required	14,990	Engine	ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.

May 21, 2022	 Monitor	14,990	Hydraulic System	CHROME IS ELEVATED AND MAY INDICATE CYLINDER RODS 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.
Apr 17, 2022	 Monitor	14,532	Hydraulic System	PARTICLE COUNT IS ELEVATED. CHROME IS ELEVATED AND MAY INDICATE CYLINDER RODS 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.
Apr 17, 2022	 No Action Required	14,532	Differential Front	ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Mar 17, 2022	 No Action Required	14,532	Differential Rear	ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Mar 17, 2022	 No Action Required	14,532	Engine	ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Mar 17, 2022	 Monitor	14,532	Transmission	PARTICLE COUNT IS ELEVATED. ALL OTHER ANALYSIS READINGS APPEAR NORMAL. CUT OPEN FILTER(S) AND INSPECT FOR DEBRIS. RESAMPLE IN 250 HOURS TO MONITOR.
Dec 29, 2021	 No Action Required	14,102	Engine	ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Dec 29, 2021	 No Action Required	14,102	Engine	ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Dec 29, 2021	 No Action Required	14,102	Transmission	ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.

Dec 29, 2021	 No Action Required	14,102	Transmission	ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Dec 29, 2021	 No Action Required	14,102	Transmission	ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Dec 29, 2021	 No Action Required	14,102	Engine	ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Dec 18, 2021	 Monitor	14,002	Engine	IRON IS ELEVATED AND MAY INDICATE CYLINDER WEAR. 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.
Dec 18, 2021	 Monitor	14,002	Engine	IRON IS ELEVATED AND MAY INDICATE CYLINDER WEAR. 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.
Dec 17, 2021	 Monitor	14,002	Transmission	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.
Dec 17, 2021	 Monitor	14,002	Hydraulic System	PARTICLE COUNT IS HIGH. CHROME IS ELEVATED AND MAY INDICATE CYLINDER RODS WEAR. CUT OPEN FILTER(S) AND INSPECT FOR DEBRIS. RESAMPLE IN 250 HOURS TO MONITOR.
Dec 17, 2021	 Monitor	14,002	Transmission	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 29, 2021	 No Action Required	13,524	Transmission	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.
Sep 29, 2021	 No Action Required	13,524	Transmission	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.
Sep 29, 2021	 Monitor	13,524	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 29, 2021	 Monitor	13,524	Hydraulic System	PARTICLE COUNT IS ELEVATED. ALL OTHER ANALYSIS READINGS APPEAR NORMAL. CUT OPEN FILTER(S) AND INSPECT FOR DEBRIS. RESAMPLE IN 250 HOURS TO MONITOR.
Jun 12, 2021	 Monitor	13,000	Transmission	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.
Jun 12, 2021	 Monitor	13,000	Hydraulic System	UNKNOWN HOURS ON THE OIL. PARTICLE COUNT IS ELEVATED. CHROME IS ELEVATED AND MAY INDICATE CYLINDER RODS WEAR. ALL OTHER ANALYSIS READINGS APPEAR NORMAL. CUT OPEN FILTER(S) AND INSPECT FOR DEBRIS. RESAMPLE IN 250 HOURS TO MONITOR.
Jun 12, 2021	 Monitor	13,000	Engine	IRON IS ELEVATED AND MAY INDICATE CYLINDER WEAR. 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.

Jan 29, 2021	 Monitor	12,500	Engine	UNKNOWN HOURS ON THE OIL. 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.
Jan 29, 2021	 No Action Required	12,500	Differential Front	UNKNOWN HOURS ON THE OIL. ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Jan 29, 2021	 No Action Required	12,500	Differential Rear	UNKNOWN HOURS ON THE OIL. ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Jan 29, 2021	 No Action Required	12,500	Transmission	UNKNOWN HOURS ON THE OIL. 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.
May 02, 2020	 Monitor	18,575	Engine	UNKNOWN HOURS ON THE OIL. IRON IS ELEVATED AND MAY INDICATE CYLINDER WEAR. LEAD IS ELEVATED AND MAY INDICATE BEARING WEAR. CUT OPEN FILTER(S) AND INSPECT FOR DEBRIS. CHANGE OIL AND FILTER(S) AND RESAMPLE IN 250 HOURS TO MONITOR.
Nov 29, 2019	 No Action Required	10,966	Transmission	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.
Nov 29, 2019	 Monitor	10,966	Engine	IRON IS ELEVATED AND MAY INDICATE CYLINDER WEAR. LEAD IS ELEVATED AND MAY INDICATE BEARING WEAR. CUT OPEN FILTER(S) AND INSPECT FOR DEBRIS. CHANGE OIL AND FILTER(S) AND RESAMPLE IN 250 HOURS TO MONITOR.

Aug 05, 2019	 Monitor	10,500	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. CHANGE OIL AND FILTER(S) AND RESAMPLE IN 250 HOURS TO MONITOR.
Apr 27, 2019	 No Action Required	10,065	Transmission	ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Apr 27, 2019	 No Action Required	10,223	Differential Rear	ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Apr 27, 2019	 No Action Required	10,223	Final Drive Rear Left	ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Apr 27, 2019	 No Action Required	10,223	Final Drive Rear Right	ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.
Apr 27, 2019	 Monitor	10,065	Engine	IRON IS ELEVATED AND MAY INDICATE CYLINDER WEAR. LEAD IS ELEVATED AND MAY INDICATE BEARING 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.
Jan 09, 2019	 No Action Required	9,591	Engine	UNKNOWN HOURS ON THE OIL. ALL TESTS APPEAR NORMAL. CONTINUE SAMPLING AT NORMAL INTERVAL.

PSP (5 Records)

Issue Date	End Date	PSP No.	Description	Status
May 04, 2026	Dec 31, 2026	PS48751	Replacing non-reporting product link pl3	 Open
Dec 18, 2019	Dec 31, 2019	PS46188	Updating product link pl121 satellite ra	 Completed
Jan 15, 2019	Aug 31, 2023	PS53847	Replacing 516-9693 cylinder liners on ce	 Expired
Feb 03, 2016	Dec 31, 2016	PS52973	Updating software on certain wheel load	 Expired
May 17, 2012	May 31, 2014	PS52228	Replacing the implement pump solenoid co	 Expired

COVERAGE HISTORY (1 Records)

Product Code	Description	Issue Date	End Date	Start Hours	End Hours
988H	36/5000 POWERTRAIN + HYDRAULICS	Dec 27, 2012	Dec 27, 2015	0	5,000

CONFIGURATION (11 Records)

Configuration Code	Description
1145125	FENDERS, STANDARD FRONT
1512384	STEERING, STANDARD
2258337	NO SUPPRESSION ARRANGEMENT
2261956	COOLING, HIGH AMBIENT / 122F
2842327	988H WHEEL LOADER
3522785	PP: 3.88M TRUCK LOADING
3528269	REGIONAL PKG-PRODUCT LINK,ANSI
3528271	SERVICE PACKAGE, BASIC
3528277	FEATURE PACKAGE, GUARDING
3540053	CAB PACKAGE, BASIC
3036325	TIRES, 35/65-33 42PR FS L4