

Service History

Service Date	Invoice Type	Hours	Description	Service Notes
02/09/2012	Service	7	PREDELIVER TRACK ASSEMBLY	
02/09/2012	Service	7	PREDELIVER BULLDOZER BLADE	
02/09/2012	Service	7	PREDELIVER MACHINE	
02/09/2012	Service	7	PREDELIVER PRE-DELIVERY INSPECTION	
02/09/2012	Service	7	TURN PRODUCT LINK SYSTEM 321	
03/16/2012	Service	7	INSTALL RADIO (AM/FM)	INSTALLED AM/FM RADIO AS PER CLIENT REQUEST. TESTED RADIO FOR PROPER OPERATION. *
05/03/2013	Service	1565	TROUBLESHOOT* MACHINE	E1093(1) LOW EGR DIFFERENTIAL PRESSURE FAULT. E1093(1) LOW EGR DIFFERENTIAL PRESSURE FAULT.NEGO? CUSTOMER COMPLAINT: E 1093 EVENT CAUSE OF FAILURE: PLUGGED AIR FILTERS RESULTANT DAMAGE: E1093 EVENT REPAIR PROCESS COMMENTS: ARRIVED AT JOB SITE. TALKED TO THE OPERATOR. HE SAID THAT THEY HAD BLOWN OUT THE FILTERS ON THE MAIN THE PRIOR DAY. THE EVENT WOULD BE INTERMITTENT. HOOKED ET TO DOWNLOAD A PRODUCT STATUS. THE LAST OCCURRENCE OF THIS EVENT WAS 1551 HRS CURRENTLY ON THE MACHINE IS 1565 HRS. CHECKED OUT THE CONNECTION ON THE NRS SYSTEM. ALL THE CLAMPS WERE TIGHT NO SIGNS OF EXHAUST GASES ESCAPING. PERFORMED A EGR TEST, PASSED WITH NO ISSUES. CUSTOMER STATED THAT EARLIER IN THE WEEK THEY HAD CLEANED OUT THE AIR FILTERS. THE SERVICE EVENTS HAD NOT BEEN LOGGED. THE PREVIOUS SERVICE EVENTS HAD TO DO WITH FILTERS RESTRICTIONS. CHECKED WIRING GOING TO EGR VALVE HEAD DID NOT HAVE ANY ISSUES. THERE WERE NO SERVICE EVENTS PRESENT.
05/03/2013	Service	1565	TROUBLESHOOT* MACHINE	E1093(1) LOW EGR DIFFERENTIAL PRESSURE FAULT. E1093(1) LOW EGR DIFFERENTIAL PRESSURE FAULT.ALVE? CUSTOMER COMPLAINT: E 1093 EVENT CAUSE OF FAILURE: PLUGGED AIR FILTERS RESULTANT DAMAGE: E1093 EVENT REPAIR PROCESS COMMENTS: ARRIVED AT JOB SITE. TALKED TO THE OPERATOR. HE SAID THAT THEY HAD BLOWN OUT THE FILTERS ON THE MAIN THE PRIOR DAY. THE EVENT WOULD BE INTERMITTENT. HOOKED ET TO DOWNLOAD A PRODUCT STATUS. THE LAST OCCURRENCE OF THIS EVENT WAS 1551 HRS CURRENTLY ON THE MACHINE IS 1565 HRS. CHECKED OUT THE CONNECTION ON THE NRS SYSTEM. ALL THE CLAMPS WERE TIGHT NO SIGNS OF EXHAUST GASES ESCAPING. PERFORMED A EGR TEST, PASSED WITH NO ISSUES. CUSTOMER STATED THAT EARLIER IN THE WEEK THEY HAD CLEANED OUT THE AIR FILTERS. THE SERVICE EVENTS HAD NOT BEEN LOGGED. THE PREVIOUS SERVICE EVENTS HAD TO DO WITH FILTERS RESTRICTIONS. CHECKED WIRING GOING TO EGR VALVE HEAD DID NOT HAVE ANY ISSUES. THERE WERE NO SERVICE EVENTS PRESENT.
05/03/2013	Service	1565	TRAVEL TO/FROM* MACHINE	MACHINE IS LOCATED: GRANTS RINCONADO PIT
05/03/2013	Service	1565	INTERVIEW CUSTOMER ABOUT MACHINE	
06/27/2013	Service	0	REPAIR LIFT/HOIST CYLINDER	CUSTOMER COMPLAINT: REPAIR DOZER LIFT CYLINDER REPAIR PROCESS COMMENTS: CYLINDER ROD BROKEN FROM CYLINDER. WASHED CYLINDER. DISASSEMBLED AND INSPECTED PARTS. PISTON RELIEF VALVE INSERTS ARE STICKING. NEW PISTON ASSEMBLY NEEDED. NEW ROD NEEDED. REMOVED SEALS AND CLEANED PARTS. INSTALLED NEW SEALS AND ASSEMBLED CYLINDER WITH NEW PISTON AND NEW ROD. PERFORMED PRESSURIZED LEAK TEST. TOUCHED UP PAINT.
06/27/2013	Service	0	INTERVIEW CUSTOMER ABOUT MACHINE	
04/15/2014	Service	0	INTERVIEW CUSTOMER ABOUT MACHINE	
05/23/2014	Service	4289	REMOVE AND INSTALL LIFT/HOIST CYLINDER	CUSTOMER STATES RIGHT SIDE BLADE LIFT CYLINDER NEEDS TO BE REMOVED AND REPAIRED. 010W0829??? LIFT CYLINDER NEE CUSTOMER COMPLAINT: 7290- R & I RH SIDE LIFT CYLINDER ASSEMBLY CAUSE OF FAILURE: LIFT CYLINDER LEAKING AT CYLINDER ROD END HEAD SEAL ASSEMBLY RESULTANT DAMAGE: LIFT CYLINDER SEALS REPAIR PROCESS COMMENTS: TAG MACHINE. INSPECTED MACHINE. R & I RH SIDE LIFT CYLINDER ASSEMBLY, LIGHT HARNESS, CONNECTOR, LIGHT BRACKET, HOSE BRACKETS, HOSE, TUBE, CYLINDER TRUNNION CAPS AND MOUNTING, CYLINDER CAP ASSEMBLY. LIFTED AND REMOVED CYLINDER FROM MACHINE. DRAIN CYLINDER AND RETRACTED ROD END ASSEMBLY IN CYLINDER ASSEMBLY. LOADED LIFT CYLINDER AND DELIVERED TO WAGNER HYDRAULIC SHOP. CUSTOMER COMPLAINT: 7143- INSTALL RIGHT BLADE LIFT CYLINDER REPAIR PROCESS COMMENTS: INSTALLED REPAIRED RIGHT BLADE LIFT CYLINDER. CONNECTED LINES WITH NEW SEALS. INSTALLED HEADLAMP ASSEMBLY. RAN MACHINE AND CHECKED FOR
05/23/2014	Service	4289	DSASSEMBLE & ASSEMBLE LIFT/HOIST CYLINDER	CUSTOMER SAYS IT NEEDS TO BE RESEALED BUT NEED TO DISASSEMBLE AND INSPECT TO CONFIRM. TECH DISASSEMBLED, INSPECTED, AND QUOTED. OLD ROD IS PITTED, BUT STILL A GOOD CORE. A REMAN ROD IS AVAILABLE.

08/22/2014	Service	3433	REPAIR MACHINE	CUSTOMER COMPLAINT: NO FIRST GEAR CAUSE OF FAILURE: REMOVED TRANSMISSION FILTER FOUND CLUTCH MATERIAL RESULTANT DAMAGE: NO FIRST GEAR REPAIR PROCESS COMMENTS: PLUGGED IN CAT CHECK FOR CODES NO CODES FOUND IN TRANSMISSION. THERE WERE OTHER CODES UNDER ENGINE AND DISPLAY. REMOVED TRANSMISSION FILTER FOUND CLUTCH MATERIAL IN FILTER HOUSING AND IN FILTER. CALLED CUSTOMER TO SEE WHAT THEY WANTED TO DO. THERE WERE GOING TO SWAP OUT MACHINE WITH ANOTHER ONE. PULLED OIL SAMPLE FROM TRANSMISSION. AND TURNED IN.
08/22/2014	Service	3433	TRAVEL TO/FROM MACHINE	REPAIR PROCESS COMMENTS: HOBBS TO LOVINGTON NM
08/22/2014	Service	3433	INTERVIEW CUSTOMER ABOUT MACHINE	
12/04/2014	Service	3814	UNLOAD MACHINE MACHINE	UNLOAD AND LOAD MACHINE AT WAGNER YARD
12/04/2014	Service	3814	INSPECT MACHINE	PERFORM INCOMING AND OUTGOING INSPECTION 020W0834??? CUSTOMER COMPLAINT: LOSS OF HIGH GEAR AND MACHINE INSP. REPAIR PROCESS COMMENTS: INTAKE INSP. DONE AS ALLOWED BY XNSM. CONDITION...WARRANTY REPAIRS COMPLETED AS NEEDED... AFTER REPAIRS MACHINE TESTED OK AND INSP. RESULTS ARE RECORDED.
12/04/2014	Service	3814	REMOVE AND INSTALL TRANSMISSION & DRIVE LINE	REMOVE AND INSTALL TRANSMISSION 040W0834??? 7143-9.3.14 VERIFIED CUSTOMER COMPLAINT. NO FIRST GEAR. REMOVED TRANS COVER TO CHECK CLUTCH PRESSURES. WAS TOLD TO PUT MACHINE INTO SHOP AND REMOVE TRANS. 7143-9.8.14 REPAIR PROCESS COMMENTS: BROUGHT MACHINE INTO SHOP. REMOVED RIPPER SHANKS FROM RIPPER AND LOWERED RIPPER. HAD TO REMOVE TWO RIPPER TEETH TO REMOVE SHANKS. THIRD RIPPER TOOTH WAS BROKEN OFF. DRAINED TRANSMISSION OIL FROM COMPARTMENT. REMOVED BELLY PANS FROM MACHINE FOR TRANS, TORQUE CONVERTER AND COOLER REMOVAL. 7143-9.9.14 DISCONNECTED LINES FROM RIPPER VALVE AND PLUGGED ALL LINES AND PORTS. REMOVED RIPPER VALVE FROM REAR OF MACHINE. REMOVED REAR TRANSMISSION GUARD. REMOVED DRIVE LINE. REMOVED INPUT YOKE AND SEAL RETAINER FROM FRONT OF TRANSMISSION CASE. REMOVED LEFT, RIGHT AND CENTER DRIVE AXLES FROM FINALS AND DIFF. DISENGAGED DIFF STEER HUB FROM TRA
12/04/2014	Service	3814	REMOVE AND INSTALL TORQUE CONVERTER	REMOVE AND INSTALL TORQUE CONVERTER 050W0834??? REPAIR PROCESS COMMENTS: 7143-9.15.14 REMOVE ALL LINES FROM TORQUE CONVERTER AND PLUGGED LINES AND PORTS. REMOVE LINES FROM CONVERTER TO COOLER. REMOVED TORQUE CONVERTER MOUNTING BOLTS AND LOWERED CONVERTER TO FLOOR. REMOVED CONVERTER FROM UNDER MACHINE. CUSTOMER COMPLAINT: 8239-10.3.14 REMOVE AND INSTALL TORQUE CONVERTER REPAIR PROCESS COMMENTS: INSTALED THE TORQUE CONVERTER INTO THE MACHINE. INSTALLED MOUNTING BOLTS AND CONNECTED ALL LINES.
12/04/2014	Service	3814	REMOVE AND INSTALL TRANSMISSION OIL PUMP	REMOVE AND INSTALL TRANSMISSION OIL PUMP 060W0834??? REPAIR PROCESS COMMENTS: 7143-9.15.14 REMOVE MOUNTING BOLTS FROM TRANSMISSION PUMP AND LOWER PUMP TO FLOOR. REMOVE PUMP FROM UNDER MACHINE. REPAIR PROCESS COMMENTS: POSITIONED THE REPAIRED TRANSMISSION PUMP IN THE THE MACHINE AND CONNECTED THE LINES.
12/04/2014	Service	3814	REPAIR FOR WARRANTY: TRANSMISSION OIL PUMP	DISASSEMBLE, CLEAN, AND ASSEMBLE FOR CROSS CONTAMINATION. 070W0834??? CUSTOMER COMPLAINT: CROSS CONTAMINATION. REPAIR PROCESS COMMENTS: DISASSEMBLED, CLEANED, AND INSPECTED PUMP FOR DAMAGE FROM CROSS CONTAMINATION. ASSEMBLED PUMP WITH NEW SEALS.
12/04/2014	Service	3814	REMOVE AND INSTALL TRANSMISSION OIL COOLER	REMOVE AND REPLACE THE CONTAMINATED TRANSMISSION OIL COOLER. 080W0834??? REMOVED REAR BONNET AND TUBE THAT GOES TO ENGINE OIL COOLER. REMOVED FRONT MOUNTING BOLTS AND LOWERED COOLER TO FLOOR. REMOVED COOLER FROM UNDER MACHINE. REPAIR PROCESS COMMENTS: 8239-9.24.14 REPLACE TRANSMISSION OIL COOLER CORE WITH A REMAN CORE. INSTALLED THE COOLER IN THE MACHINE, INSTALLED THE COOLER MOUNT BOLTS AND CONNECTED THE OIL LINES TO THE COOLER.
12/04/2014	Service	3814	REMOVE AND INSTALL HYDRAULIC MANIFOLD-ABC	REMOVE AND INSTALL LUBRICATION DISTRIBUTION MANIFOLD TO CLEAN CONTAMINATION. 090W0834??? CUSTOMER COMPLAINT: MACHINE REPAIRS AND COMPONENT REMOVAL. REPAIR PROCESS COMMENTS: REMOVAL OF COVERS AND PANELS. DRAIN OUT HYDRAULIC TANK AND SYSTEM. DISCONNECTED ALL HYDRAULIC TUBES AND HOSES FROM MANIFOLD. DISCONNECTED ALL HARNESS CONNECTIONS. PLUGGED AND CAPPED OFF ALL PORTS. REMOVED SUPPORTS AND RETAINING BOLTS TO MANIFOLD REMOVED MANIFOLD FROM MACHINE. SET ASIDE AND PERFORM ADDITIONAL REPAIRS. REASSEMBLED ALL COMPONENTS IN REVERSE ORDER.
12/04/2014	Service	3814	REMOVE AND INSTALL TRACK ASSEMBLY	REMOVE/INSTALL TRACK ASSEMBLY 100W0834??? CUSTOMER COMPLAINT: 8239-9.22.14 REMOVE TRACK ASSEMBLY. REPAIR PROCESS COMMENTS: REMOVED TRACK ASSEMBLY FROM BOTH SIDES OF MACHINE TO ACCESS THE FINALS AND BRAKES. INSTALLED BOTH TRACKS BY WRAPPING TRACKS ONTO MACHINE. ONCE TRACKS WERE WRAPPED, PUT MASTER PAD AND BOLTS ON TO MACHINE TORQUED BOLTS TO SPEC.

12/04/2014	Service	3814	REMOVE AND INSTALL PARKING/SECND BR CONT VLV	REMOVE AND INSTALL BRAKE CONTROL VALVE DUE TO CONTAMINATION OF HYDRAULIC SYSTEM. 110W0834??? M.ALVE DUE TOSPEC. REMOVED THE BRAKE CONTROL VALVE FOR RESEAL. ONCE BRAKE CONTROL VALVE HAD BEEN RESEALED, INSTALLED THE VALVE.
12/04/2014	Service	3814	REMOVE AND INSTALL FNL DR, ST CLUTCH & BRAKE	REMOVE AND INSTALL BOTH FINAL DRIVE, BRAKES AND STEERING CLUTCHES. 120W0834??? IVE, BRAKES ANDEC. CUSTOMER COMPLAINT: 8239-9.22.14 REMOVE FINAL DRIVE ASSEMBLY. REPAIR PROCESS COMMENTS: AFTER REMOVED TRACKS, REMOVED FINAL DRIVE AND BRAKE ASSEMBLIES ON BOTH SIDES FOR CONTAMINATION CLEAN OUT. REPAIR PROCESS COMMENTS: AFTER CONTAMINATION REPAIRS WERE COMPLETED TO THE FINALS AND BRAKES, REINSTALLED THE FINALS AND BRAKES ONTO THE MACHINE.
12/04/2014	Service	3814	SEPERATE & CONNECT FNL DR, ST CLUTCH & BRAKE	SEPARATE & CONNECT FINAL DRIVE, STEERING CLUTCH AND BRAKE 140W0834??? STEERING CLUTCHHE. REPAIR PROCESS COMMENTS: SEPARATED BOTH FINALS AND BRAKES FOR CONTAMINATION CLEAN OUT. CONNECTED BOTH FINALS AND BRAKES AFTER THE CONTAMINATION CLEAN OUT WAS COMPLETE.
12/04/2014	Service	3814	REPAIR FOR WARRANTY: DIFFERENTIAL DRIVE/BRAKE	REPAIR THE CONTAMINATED BRAKE AND DIFFERENTIAL DRIVE GROUP FOR WARRANTY. 150W0834??? D DIFFERENTIALTERN REPAIR PROCESS COMMENTS: 8113-9.23.14 CLEAN WORK AREA START DISASSEMBLY OF BRAKES FOR FINIAL DRIVES. CUSTOMER COMPLAINT: 8239-9.24.14 REPAIR THE SERVICE BRAKES REPAIR PROCESS COMMENTS: DISASSEMBLE SERVICE BRAKES AND WASH PARTS. ASSEMBLED BRAKES ONCE CONTAMINATION WAS REMOVED. REPAIR LUBRICATION MANIFOLD FOR WARRANTY.
12/04/2014	Service	3814	REPAIR FOR WARRANTY: POWER TRAIN OIL LINES	160W0834??? WARRANTY.EMOVED.RN DISASSEMBLED AND CLEANED CONTAMINATION FROM THE LUBE MANIFOLD. ASSEMBLED THE CLEAN LUBE MANIFOLD.
12/04/2014	Service	3814	REPAIR FOR WARRANTY: PARKING/SECND BR CONT VLV	REPAIR BRAKE CONTROL VALVE FOR CONTAMINATION. 170W0834??? ONTAMINATION.OLD.N ONCE PARKING BRAKE VALVE WAS REMOVED, TORE VALVE DOWN AND CLEANED WITH COMPONANT CLEANER BUILT VALVE BACK UP AND SET ASIDE FOR INSTALLATION.
12/04/2014	Service	3814	REPAIR FOR WARRANTY: TRANSMISSION & DRIVE LINE	CLUTCH MATERIAL PRESENT IN FILTERS NO FIRST GEAR 200W0834??? RS NO FIRST GEAR.N CUSTOMER COMPLAINT: REPAIR FOR WARRANTY CAUSE OF FAILURE: FOUND SEALS FOR ROTATOR PISTON HAD COME APART, CAUSING DAMAGE TO STEEL AND FRICTION CLUTCHES AND CAUSING THE END OF SNAP RING ROTATOR TO BREAK OFF(5P8194). SEALS WERE CUT DURING ASSEMBLY OF TRANSMISSION. RESULTANT DAMAGE: CONTIGNENT CONTAMINATION TO REST OF TRANS CAUSE BY FRICTION MATERIAL THROUGHOUT TRANS. REPAIR PROCESS COMMENTS: INSTALLED NECESSARY PARTS. COMPLETED DYNO TEST. NO LEAKS FOUND, ALL PRESSURES GOOD
12/04/2014	Service	3814	REPAIR FOR WARRANTY: TORQUE CONVERTER	CROSS CONTAMINATION OF TRANSMISSION DEBRIS. 250W0834??? ION DEBRIS.EST. NO CUSTOMER COMPLAINT: DISASSEMBLE AND INSPECT TORQUE CONVERTER FOR POSSIBLE CONTAMINATION FROM TRANSMISSION FAILURE. RESULTANT DAMAGE: DISASSEMBLED UNIT FOUND TRUST WASHERS ON STATOR HAD SIGNS OF SIDE LOADING. LOCKUP BEARINGS AND SPRINGS ALSO HAD STRANGE WEAR MAKES. NO HEAVY CONTAMINATION WAS FOUND ALL OTHER BEARINGS AND RACES MET CATERPILLAR GUIDE LINES. IMPELLER STATOR AND TURBINE ALL MET CATERPILLAR GUIDE LINES. RELIEF VALVE LOOKED GOOD AND HAD NO SIGNS OF CONTAMINATION. REPAIR PROCESS COMMENTS: RESEALED UNIT ONLY. REPLACED PARTS THAT DID NOT MEET CATERPILLAR GUILD LINES. MADE ALL ADJUSTMENTS AS NEEDED. PREPARED UNIT FOR INSTALLATION.
12/04/2014	Service	3814	REMOVE AND INSTALL TORQUE CONVERTER RELF VLV	REMOVE AND INSTALL THE TORQUE CONVERTER OUTLET RELIEF VALVE TO CLEAN CONTAMINATION. 300W0834??? ION.TER OUTLETENTS REMOVED THE TORQUE CONVERTER OUTLET RELIEF VALVE TO CLEAN CONTAMINATION. INSTALLED THE TORQUE CONVERTE OUTLET RELIEF VALVE ONCE CLEAN.
12/04/2014	Service	3814	REPAIR FOR WARRANTY: USE CODE 3151	CLEAN THE CONTAMINATED TORQUE CONVERTER OUTLET RELIEF VALVE. 310W0834??? NVERTER OUTLETVETS DISASSEMBLE, CLEANED AND INSPECTED THE TORQUE CONVERTER OUTLET RELIEF VALVE. ASEBLED THE VALVE ONCE IT WAS CLEAN.
12/04/2014	Service	3814	REPAIR FOR WARRANTY: TRANSMISSION LINES/HOSES	CLEAN CONTAMINATION FROM ALL TRANSMISSION LINES, HOSES, FILTER HOUSINGS AND TRANSMISSION CASE. 400W0834??? MISSION CASE.ES,ES REPAIR PROCESS COMMENTS: CLEANED CONTAMINATION FROM ALL POWERTRAIN LINES AND HOSES. SCRUBBED AND CLEANED THE TRANSMISSION CASE TO REMOVE ALL CONTAMINATION.
12/04/2014	Service	3814	REPAIR FOR WARRANTY: TRANSMISSION & DRIVE LINE	CLUTCH MATERIAL PRESENT IN FILTERS NO FIRST GEAR 200W0834??? RS NO FIRST GEARES CUSTOMER COMPLAINT: REPAIR FOR WARRANTY CAUSE OF FAILURE: FOUND SEALS FOR ROTATOR PISTON HAD COME APART, CAUSING DAMAGE TO STEEL AND FRICTION CLUTCHES AND CAUSING THE END OF SNAP RING ROTATOR TO BREAK OFF(5P8194). SEALS WERE CUT DURING ASSEMBLY OF TRANSMISSION. RESULTANT DAMAGE: CONTIGNENT CONTAMINATION TO REST OF TRANS CAUSE BY FRICTION MATERIAL THROUGHOUT TRANS. REPAIR PROCESS COMMENTS: INSTALLED NECESSARY PARTS. COMPLETED DYNO TEST. NO LEAKS FOUND, ALL PRESSURES GOOD
12/04/2014	Service	3814	UNLOAD MACHINE MACHINE	
12/04/2014	Service	3814	INSPECT MACHINE	

12/04/2014	Service	3814	CLEAN. MACHINE	STEAM CLEAN IN ACCORDANCE WITH WAGNER EQUIPMENT CONTAMINATION CONTROL POLICY
12/04/2014	Service	3814	REMOVE AND INSTALL TRANSMISSION & DRIVE LINE	REMOVE AND INSTALL TRANSMISSION 040W0834??? 7143-9.3.14 VERIFIED CUSTOMER COMPLAINT. NO FIRST GEAR. REMOVED TRANS COVER TO CHECK CLUTCH PRESSURES. WAS TOLD TO PUT MACHINE INTO SHOP AND REMOVE TRANS. 7143-9.8.14 REPAIR PROCESS COMMENTS: BROUGHT MACHINE INTO SHOP. REMOVED RIPPER SHANKS FROM RIPPER AND LOWERED RIPPER. HAD TO REMOVE TWO RIPPER TEETH TO REMOVE SHANKS. THIRD RIPPER TOOTH WAS BROKEN OFF. DRAINED TRANSMISSION OIL FROM COMPARTMENT. REMOVED BELLY PANS FROM MACHINE FOR TRANS, TORQUE CONVERTER AND COOLER REMOVAL. 7143-9.9.14 DISCONNECTED LINES FROM RIPPER VALVE AND PLUGGED ALL LINES AND PORTS. REMOVED RIPPER VALVE FROM REAR OF MACHINE. REMOVED REAR TRANSMISSION GUARD. REMOVED DRIVE LINE. REMOVED INPUT YOKE AND SEAL RETAINER FROM FRONT OF TRANSMISSION CASE. REMOVED LEFT, RIGHT AND CENTER DRIVE AXLES FROM FINALS AND DIFF. DISENGAGED DIFF STEER HUB FROM TRANSMISSION. REMO
12/04/2014	Service	3814	REMOVE AND INSTALL TORQUE CONVERTER	REMOVE AND INSTALL TORQUE CONVERTER 050W0834??? REPAIR PROCESS COMMENTS: 7143-9.15.14 REMOVE ALL LINES FROM TORQUE CONVERTER AND PLUGGED LINES AND PORTS. REMOVE LINES FROM CONVERTER TO COOLER. REMOVED TORQUE CONVERTER MOUNTING BOLTS AND LOWERED CONVERTER TO FLOOR. REMOVED CONVERTER FROM UNDER MACHINE. CUSTOMER COMPLAINT: 8239-10.3.14 REMOVE AND INSTALL TORQUE CONVERTER REPAIR PROCESS COMMENTS: INSTALLED THE TORQUE CONVERTER INTO THE MACHINE. INSTALLED MOUNTING BOLTS AND CONNECTED ALL LINES.
12/04/2014	Service	3814	REMOVE AND INSTALL TRANSMISSION OIL PUMP	REMOVE AND INSTALL TRANSMISSION OIL PUMP 060W0834??? REPAIR PROCESS COMMENTS: 7143-9.15.14 REMOVE MOUNTING BOLTS FROM TRANSMISSION PUMP AND LOWER PUMP TO FLOOR. REMOVE PUMP FROM UNDER MACHINE. REPAIR PROCESS COMMENTS: POSITIONED THE REPAIRED TRANSMISSION PUMP IN THE THE MACHINE AND CONNECTED THE LINES.
12/04/2014	Service	3814	REPAIR FOR WARRANTY: TRANSMISSION OIL PUMP	DISASSEMBLE, CLEAN, AND ASSEMBLE FOR CROSS CONTAMINATION. 070W0834??? CUSTOMER COMPLAINT: CROSS CONTAMINATION. REPAIR PROCESS COMMENTS: DISASSEMBLED, CLEANED, AND INSPECTED PUMP FOR DAMAGE FROM CROSS CONTAMINATION. ASSEMBLED PUMP WITH NEW SEALS.
12/04/2014	Service	3814	REMOVE AND INSTALL TRANSMISSION OIL COOLER	REMOVE AND REPLACE THE CONTAMINATED TRANSMISSION OIL COOLER. 080W0834??? REPAIR PROCESS COMMENTS: 7143-9.15.14 DRAINED COOLING SYSTEM. REMOVED LINES TO POWERTRAIN OIL COOLER. REMOVED REAR BONNET AND TUBE THAT GOES TO ENGINE OIL COOLER. REMOVED FRONT MOUNTING BOLTS AND LOWERED COOLER TO FLOOR. REMOVED COOLER FROM UNDER MACHINE. REPAIR PROCESS COMMENTS: 8239-9.24.14 REPLACE TRANSMISSION OIL COOLER CORE WITH A REMAN CORE. INSTALLED THE COOLER IN THE MACHINE, INSTALLED THE COOLER MOUNT BOLTS AND CONNECTED THE OIL LINES TO THE COOLER.
12/04/2014	Service	3814	REMOVE AND INSTALL HYDRAULIC MANIFOLD-ABC	REMOVE AND INSTALL LUBRICATION DISTRIBUTION MANIFOLD TO CLEAN CONTAMINATION. 090W0834??? CUSTOMER COMPLAINT: MACHINE REPAIRS AND COMPONENT REMOVAL. REPAIR PROCESS COMMENTS: REMOVAL OF COVERS AND PANELS. DRAIN OUT HYDRAULIC TANK AND SYSTEM. DISCONNECTED ALL HYDRAULIC TUBES AND HOSES FROM MANIFOLD. DISCONNECTED ALL HARNESS CONNECTIONS. PLUGGED AND CAPPED OFF ALL PORTS. REMOVED SUPPORTS AND RETAINING BOLTS TO MANIFOLD REMOVED MANIFOLD FROM MACHINE. SET ASIDE AND PERFORM ADDITIONAL REPAIRS. REASSEMBLED ALL COMPONENTS IN REVERSE ORDER.
12/04/2014	Service	3814	REMOVE AND INSTALL TRACK ASSEMBLY	REMOVE/INSTALL TRACK ASSEMBLY 100W0834??? REPAIR PROCESS COMMENTS: 8239-9.22.14 REMOVE TRACK ASSEMBLY. REMOVED TRACK ASSEMBLY FROM BOTH SIDES OF MACHINE TO ACCESS THE FINALS AND BRAKES. INSTALLED BOTH TRACKS BY WRAPPING TRACKS ONTO MACHINE. ONCE TRACKS WERE WRAPPED, PUT MASTER PAD AND BOLTS ON TO MACHINE TORQUED BOLTS TO SPEC.
12/04/2014	Service	3814	REMOVE AND INSTALL PARKING/SECND BR CONT VLV	REMOVE AND INSTALL BRAKE CONTROL VALVE DUE TO CONTAMINATION OF HYDRAULIC SYSTEM. 110W0834??? REMOVED THE BRAKE CONTROL VALVE FOR RESEAL. ONCE BRAKE CONTROL VALVE HAD BEEN RESEALED, INSTALLED THE VALVE.
12/04/2014	Service	3814	REMOVE AND INSTALL FNL DR, ST CLUTCH & BRAKE	REMOVE AND INSTALL BOTH FINAL DRIVE, BRAKES AND STEERING CLUTCHES. 120W0834??? CUSTOMER COMPLAINT: 8239-9.22.14 REMOVE FINAL DRIVE ASSEMBLY. REPAIR PROCESS COMMENTS: AFTER REMOVED TRACKS, REMOVED FINAL DRIVE AND BRAKE ASSEMBLIES ON BOTH SIDES FOR CONTAMINATION CLEAN OUT. REPAIR PROCESS COMMENTS: AFTER CONTAMINATION REPAIRS WERE COMPLETED TO THE FINALS AND BRAKES, REINSTALLED THE FINALS AND BRAKES ONTO THE MACHINE.
12/04/2014	Service	3814	SEPERATE & CONNECT FNL DR, ST CLUTCH & BRAKE	SEPARATE & CONNECT FINAL DRIVE, STEERING CLUTCH AND BRAKE 140W0834??? REPAIR PROCESS COMMENTS: SEPARATED BOTH FINALS AND BRAKES FOR CONTAMINATION CLEAN OUT. CONNECTED BOTH FINALS AND BRAKES AFTER THE CONTAMINATION CLEAN OUT WAS COMPLETE.

12/04/2014	Service	3814	REPAIR FOR WARRANTY: DIFFERENTIAL DRIVE/BRAKE	REPAIR THE CONTAMINATED BRAKE AND DIFFERENTIAL DRIVE GROUP FOR WARRANTY. 150W0834??? DIFFERENTIALTERN REPAIR PROCESS COMMENTS: 8113-9.23.14 CLEAN WORK AREA START DISASSEMBLY OF BRAKES FOR FINIAL DRIVES. CUSTOMER COMPLAINT: 8239-9.24.14 REPAIR THE SERVICE BRAKES REPAIR PROCESS COMMENTS: DISASSEMBLE SERVICE BRAKES AND WASH PARTS. ASSEMBLED BRAKES ONCE CONTAMINATION WAS REMOVED. REPAIR LUBRICATION MANIFOLD FOR WARRANTY.
12/04/2014	Service	3814	REPAIR FOR WARRANTY: POWER TRAIN OIL LINES	160W0834??? DISASSEMBLED AND CLEANED CONTAMINATION FROM THE LUBE MANIFOLD. ASSEMBLED THE CLEAN LUBE MANIFOLD.
12/04/2014	Service	3814	REPAIR FOR WARRANTY: PARKING/SECND BR CONT VLV	REPAIR BRAKE CONTROL VALVE FOR CONTAMINATION. 170W0834??? ONCE PARKING BRAKE VALVE WAS REMOVED, TORE VALVE DOWN AND CLEANED WITH COMPONANT CLEANER BUILT VALVE BACK UP AND SET ASIDE FOR INSTALLATION.
12/04/2014	Service	3814	REPAIR FOR WARRANTY: TRANSMISSION & DRIVE LINE	CLUTCH MATERIAL PRESENT IN FILTERS NO FIRST GEAR 200W0834??? CUSTOMER COMPLAINT: REPAIR FOR WARRANTY CAUSE OF FAILURE: FOUND SEALS FOR ROTATOR PISTON HAD COME APART, CAUSING DAMAGE TO STEEL AND FRICTION CLUTCHES AND CAUSING THE END OF SNAP RING ROTATOR TO BREAK OFF(5P8194). SEALS WERE CUT DURING ASSEMBLY OF TRANSMISSION. RESULTANT DAMAGE: CONTIGNENT CONTAMINATION TO REST OF TRANS CAUSE BY FRICTION MATERIAL THROUGHOUT TRANS. REPAIR PROCESS COMMENTS: INSTALLED NECESSARY PARTS. COMPLETED DYNO TEST. NO LEAKS FOUND, ALL PRESSURES GOOD
12/04/2014	Service	3814	REPAIR FOR WARRANTY: TORQUE CONVERTER	CROSS CONTAMINATION OF TRANSMISSION DEBRIS. 250W0834??? CUSTOMER COMPLAINT: DISASSEMBLE AND INSPECT TORQUE CONVERTER FOR POSSIBLE CONTAMINATION FROM TRANSMISSION FAILURE. RESULTANT DAMAGE: DISASSEMBLED UNIT FOUND TRUST WASHERS ON STATOR HAD SIGNS OF SIDE LOADING. LOCKUP BEARINGS AND SPRINGS ALSO HAD STRANGE WEAR MAKES. NO HEAVY CONTAMINATION WAS FOUND ALL OTHER BEARINGS AND RACES MET CATERPILLAR GUIDE LINES. IMPELLER STATOR AND TURBINE ALL MET CATERPILLAR GUIDE LINES. RELIEF VALVE LOOKED GOOD AND HAD NO SIGNS OF CONTAMINATION. REPAIR PROCESS COMMENTS: RESEALED UNIT ONLY. REPLACED PARTS THAT DID NOT MEET CATERPILLAR GUILD LINES. MADE ALL ADJUSTMENTS AS NEEDED. PREPARED UNIT FOR INSTALLATION.
12/04/2014	Service	3814	REMOVE AND INSTALL TORQUE CONVERTER RELF VLV	REMOVE AND INSTALL THE TORQUE CONVERTER OUTLET RELIEF VALVE TO CLEAN CONTAMINATION. 300W0834??? REMOVED THE TORQUE CONVERTER OUTLET RELIEF VALVE TO CLEAN CONTAMINATION. INSTALLED THE TORQUE CONVERTE OUTLET RELIEF VALVE ONCE CLEAN.
12/04/2014	Service	3814	REPAIR FOR WARRANTY: USE CODE 3151	CLEAN THE CONTAMINATED TORQUE CONVERTER OUTLET RELIEF VALVE. 310W0834??? OUTLETVETS DISASSEMBLE, CLEANED AND INSPECTED THE TORQUE CONVERTER OUTLET RELIEF VALVE. ASEBLED THE VALVE ONCE IT WAS CLEAN.
12/04/2014	Service	3814	REPAIR FOR WARRANTY: TRANSMISSION LINES/HOSES	CLEAN CONTAMINATION FROM ALL TRANSMISSION LINES, HOSES, FILTER HOUSINGS AND TRANSMISSION CASE. 400W0834??? REPAIR PROCESS COMMENTS: CLEANED CONTAMINATION FROM ALL POWERTRAIN LINES AND HOSES. SCRUBBED AND CLEANED THE TRANSMISSION CASE TO REMOVE ALL CONTAMINATION.
12/04/2014	Service	3814	INTERVIEW CUSTOMER ABOUT MACHINE	
04/06/2015	Service	4	UNLOAD MACHINE MACHINE	UNLOAD AND LOAD MACHINE AT WAGNER YARD
04/06/2015	Service	4	INSPECT MACHINE	PERFORM INCOMING AND OUTGOING INSPECTION
04/06/2015	Service	4	UNLOAD MACHINE MACHINE	
04/06/2015	Service	4	INSPECT MACHINE	
04/06/2015	Service	4	CLEAN* MACHINE	STEAM CLEAN IN ACCORDANCE WITH WAGNER EQUIPMENT CONTAMANATION CONTROL POLICY
04/06/2015	Service	4	TROUBLESHOOT MACHINE	TROUBLESHOOT LOW POWER ISSUE.AND ECM FAILURE CODE.
04/06/2015	Service	4	REPAIR TRACK ROLLER(S)	RESEAL FRONT LEFT BOGIE.
04/06/2015	Service	4	INTERVIEW CUSTOMER ABOUT MACHINE	
09/09/2015	Service	3769	PAINT MACHINE	
09/09/2015	Service	3769	INSPECT MACHINE	
09/09/2015	Service	3769	CLEAN. MACHINE	
09/09/2015	Service	3769	REPLACE BATTERY	REPLACE BATTERIES - DEAD CELL, WON'T HOLD A CHARGE
09/09/2015	Service	3769	WASH * MACHINE	
09/09/2015	Service	3769	REPAIR BACKUP ALARM	
09/09/2015	Service	3769	INTERVIEW CUSTOMER ABOUT MACHINE	PER EMAIL FROM J. VIGIL ON
11/25/2015	Service	4001	PAINT* MACHINE	

11/25/2015	Service	4001	INSPECT MACHINE	INSPECT MACHINE AND CONCOCT A USED EQUIPMENT REPAIR / QUOTE SUMMARY, PICTURES IF NECESSARY * REFERENCE WORK ORDER AK22101
11/25/2015	Service	4001	CLEAN. MACHINE	WASH MACHINE, CLEAN GLASS AND CAB
11/25/2015	Service	4001	REPLACE BATTERY	REPLACE BATTERIES - DEAD CELL, WON'T HOLD A CHARGE
11/25/2015	Service	4001	PERFORM PM-4 2000 HOUR	PERFORM INDICATED MAINT. 2000 HOUR SERVICE 050W0843??? CUSTOMER COMPLAINT: PERFORM INDICATED MAINT. 2000 HOURS SERVICE CAUSE OF FAILURE: SERVICE REQUESTED, MACHINE DUE FOR SERVICE RESULTANT DAMAGE: PERFORM INDICATED MAINT. 2000 HOURS SERVICE REPAIR PROCESS COMMENTS: PERFORMED 2000 HOURS SERVICE, FOLLOWED ALL STEP AS DIRECTED BY SIS, CHANGED ALL OILS, CHECKED COOLANT, CHANGED FILTERS, TOOK SAMPLES.
11/25/2015	Service	4001	REPAIR BACKUP ALARM	
11/25/2015	Service	4001	WINTER INSPECT PM-4 2000 HOUR	ADD ON PARTS FOR SERVICE ONLY (NO LABOR)
11/25/2015	Service	4001	INSPECT VEH# KRS181 S/N 47546	FINAL INSPECT / AFTER REPAIRS
11/25/2015	Service	4001	REMOVE DECALS	REMOVE CUSTOMER DECALS 090W0843??? CUSTOMER COMPLAINT: REMOVE CUSTOMER DECALS CAUSE OF FAILURE: DECALS NEED TO BE REMOVED RESULTANT DAMAGE: NONE REPAIR PROCESS COMMENTS: REMOVED EXISTING CUSTOMER DECALS. T/S DIAGNOSTIC CODES: ADVISE IF REPAIRS ARE NEEDED
11/25/2015	Service	4001	TROUBLESHOOT EMS PANEL	100W0843??? CUSTOMER COMPLAINT: T/S DIAGNOSTIC CODES: ADVISE IF REPAIRS ARE NEEDED CAUSE OF FAILURE: NONE RESULTANT DAMAGE: NONE REPAIR PROCESS COMMENTS: CHECKED CODES WITH CAT ET NO CODES FOUND ON MACHINE
11/25/2015	Service	4001	WEEKLY REPAIRS BY SOFTWARE	UPDATE ECM SOFTWARE: UPDATE AS NEEDED 110W0843??? CUSTOMER COMPLAINT: UPDATE ECM SOFTWARE CAUSE OF FAILURE: SOFTWARE OUT OF DATE RESULTANT DAMAGE: NONE REPAIR PROCESS COMMENTS: RE FLASHED SOFTWARE TO CURRENT SOFTWARE
11/25/2015	Service	4001	REPLACE DISCONNECT SWITCH	REPLACE MASTER SWITCH: STICKING 120W0843??? CUSTOMER COMPLAINT: REPLACE MASTER SWITCH: STICKING CAUSE OF FAILURE: MASTER SWITCH STUCK RESULTANT DAMAGE: REMOVED THREE BOLTS ON MASTER SWITCH COVER FOURTH BOLT WAS UNABLE TO REMOVE REPAIR PROCESS COMMENTS: HEATED UP FOURTH BOLT ON MASTER SWITCH COVER ATTEMPTED TO REMOVE UNABLE TRIED TORX BIT STRIPED BOLT, THEN USED WELDER TO WELD A NUT ONTO THE BOLT THEN WAS ABLE TO REMOVE, REMOVED COVER, THERE WAS A BLOCK OF RUST AND MUD THAT TURNED INTO A SOLID, ATTEMPTED TO REMOVE WITH CHISEL, UNABLE, MOVED MACHINE TO WASH RACK POWER WASHED INSIDE OF BOX TO REMOVE RUST, THEN USED CHISEL TO REMOVE THE REST OF IT, CLEANED UP CONNECTIONS ON MASTER SWITCH, THEN REMOVED MASTER SWITCH, THERE WAS A HOLE THROUGH IT, REMOVED IT THEN REPLACED WITH NEW SWITCH, INSTALLED NEW SWITCH HANDLE THEN TESTED FOR OPERATION THEN INSTALLED COVER WITH NEW HARDWARE.
11/25/2015	Service	4001	CLEAN* WIRING HARNESS	CLEAN BATTERY CABLES: CORRSION 130W0843??? CUSTOMER COMPLAINT: CLEAN BATTERY CABLES, CORROSION CAUSE OF FAILURE: BATTER CABLES HAVE CORROSION RESULTANT DAMAGE: NEED TO BE CLEANED REPAIR PROCESS COMMENTS: CLEANED BATTERY CABLES REMOVED CORROSION
11/25/2015	Service	4001	REPLACE FUEL TANK	REPLACE FUEL STRAINER: MISSING TRASH SCREEN 140W0843??? CUSTOMER COMPLAINT: REPLACE FUEL STRAINER: MISSING TRASH SCREEN CAUSE OF FAILURE: MISSING RESULTANT DAMAGE: MISSING REPAIR PROCESS COMMENTS: REPLACED FUEL STRAINER
11/25/2015	Service	4001	REPAIR FLOODLIGHTS	REPAIR LIGHTS: RIGHT FRONT LAMP OUT 150W0843??? CUSTOMER COMPLAINT: REPAIR LIGHTS RIGHT FRONT LAMP OUT CAUSE OF FAILURE: RIGHT FRONT LIGHT OUT RESULTANT DAMAGE: BROKEN BULB REPAIR PROCESS COMMENTS: REPLACED BULB ON HEADLIGHT TESTED FOR OPERATION.
11/25/2015	Service	4001	REPAIR WINDSHIELD WASHER	REPAIR WINDOW WASHER: FRONT WASHER NOT WORKING 160W0843??? CUSTOMER COMPLAINT: REPAIR WINDOW WASHER FRONT WASHER NOT WORKING CAUSE OF FAILURE: BROKEN WASHER ARM AND CLOGGED VALVE RESULTANT DAMAGE: WASHER ARM CRACKED AND VALVE CLOGGED WITH DIRT REPAIR PROCESS COMMENTS: TESTED TO SEE IF PUMP WAS WORKING, VERIFIED PUMP WORKING THEN REMOVED HOSE FROM SPRAYER VALVE THEN DISCOVERED THAT THERE WAS PRESSURE FROM HOSE, CLEANED VALVE, VALVE WAS CLOGGED, THEN REPLACED WASHER ARM AS.
11/25/2015	Service	4001	ADJUST STABILIZER/STABILIZER BAR	ADJUST BLADE TRUNNIONS: STABILIZER AND LIFT CYLINER NEED ADJUST 170W0843??? CUSTOMER COMPLAINT: ADJUST BLADE TRUNNION'S: STABILIZER AND LIFT CYLINDER CAUSE OF FAILURE: NEED ADJUSTMENT RESULTANT DAMAGE: JUST NEEDS ADJUSTMENT REPAIR PROCESS COMMENTS: REMOVED SHIMS TO PROPER ADJUSTMENTS
11/25/2015	Service	4001	REPLACE FLOODLIGHTS	CUSTOMER COMPLAINT: REPLACE RIPPER TABLE FLOOD LIGHT-BROKEN CAUSE OF FAILURE: BROKEN RESULTANT DAMAGE: NEEDS TO BE REPLACED REPAIR PROCESS COMMENTS: REPLACED FLOOD LIGHT USED NEW HARDWARE.

03/13/2024	8,169	FINAL DRIVE REAR LEFT	Monitor	NORMAL WEAR METAL READINGS. SOME VISCOSITY LOSS OBSERVED. OIL CHANGED - NOTE CHANGES TO VISCOSITY & ADDITIVE PACKAGE. OTHER ANALYSIS READINGS APPEAR TO BE ACCEPTABLE. RESAMPLE IN 250 HOURS TO MONITOR.
03/13/2024	8,169	FINAL DRIVE REAR RIGHT	Monitor	ALUMINUM REMAINS SLIGHTLY ELEVATED BUT HAS IMPROVED. PARTICLE COUNT IS ELEVATED. SOME VISCOSITY LOSS OBSERVED. OTHER ANALYSIS READINGS APPEAR TO BE ACCEPTABLE. RESAMPLE IN 250 HOURS TO MONITOR.
03/13/2024	8,169	HYDRAULIC SYSTEM	No Action Required	NORMAL READINGS. NO PROBLEMS PRESENTLY ASSOCIATED WITH THIS SAMPLE. CONTINUE SAMPLING AT THE NORMAL INTERVAL.
03/13/2024	8,169	RADIATOR	Action Required	NITRITES ARE TOO LOW TO PROVIDE CORROSION/EROSION PROTECTION. SAMPLE HAS SLIGHTLY CLOUDY APPEARANCE. OTHER READINGS APPEAR NORMAL. ADD 2/3 OF A QUART OF ELC EXTENDER (CAT P/N 119-5152) TO BOOST NITRITE. CONTINUE TO USE THIS COOLANT. SAMPLE AGAIN AT THE REGULAR INTERVAL TO MONITOR THE COOLING SYSTEM.
03/13/2024	8,169	TRANSMISSION	No Action Required	NORMAL WEAR METAL READINGS. PARTICLE COUNT IS SLIGHTLY ELEVATED FROM TREND. OTHER ANALYSIS READINGS APPEAR TO BE ACCEPTABLE. RESAMPLE AT THE NEXT SERVICE INTERVAL.
03/24/2023	8,114	ENGINE	No Action Required	WEAR PATTERN IS ACCEPTABLE AT THIS TIME. RESAMPLE IN 250 HRS.
03/24/2023	8,114	TRANSMISSION	No Action Required	WEAR PATTERN IS ACCEPTABLE AT THIS TIME. RESAMPLE IN 500 HRS.
07/21/2021	7,896	ENGINE	Monitor	UNKNOWN HOURS ON OIL. COPPER APPEARS ELEVATED. OTHER READINGS APPEAR NORMAL. COPPER ALONE USUALLY INDICATES COOLER CORE LEACHING. NO ACTION REQUIRED AT THIS TIME DUE TO OIL AND FILTER CHANGE. RESAMPLE IN 250 HOURS TO MONITOR. INTERPRETATION BY RACHEL S. - FLUIDS TECH
07/21/2021	7,896	FINAL DRIVE REAR LEFT	No Action Required	UNKNOWN HOURS ON OIL. ALUMINUM APPEARS SLIGHTLY ELEVATED. OTHER READINGS APPEAR NORMAL. RESAMPLE AT THE NEXT SERVICE INTERVAL. INTERPRETATION BY RACHEL S. - FLUIDS TECH
07/21/2021	7,896	FINAL DRIVE REAR RIGHT	Monitor	UNKNOWN HOURS ON OIL. ALUMINUM, SILICON AND PARTICLE COUNT APPEARS ELEVATED. SEE MICROSCOPE PICTURE ATTACHED. OTHER READINGS APPEAR NORMAL. RESAMPLE AT THE NEXT SERVICE INTERVAL. INTERPRETATION BY RACHEL S. - FLUIDS TECH
07/21/2021	7,896	HYDRAULIC SYSTEM	Monitor	UNKNOWN HOURS ON OIL. PARTICLE COUNT APPEARS SLIGHTLY ELEVATED. OTHER READINGS APPEAR NORMAL. RESAMPLE AT THE NEXT SERVICE INTERVAL. INTERPRETATION BY RACHEL S. - FLUIDS TECH
07/21/2021	7,896	RADIATOR	Monitor	IF ELC, NITRITE LEVEL (INHIBITOR) IS TOO LOW TO PROVIDE CORROSION / EROSION PROTECTION. THIS CAN BE CAUSED BY A NUMBER OF ISSUES. ALL OTHER TESTS APPEAR NORMAL. RECOMMEND ADDING MANUFACTURER SUGGESTED AMOUNT OF ELC EXTENDER TO BRING INHIBITOR LEVELS BACK TO ACCEPTABLE RANGE. RESAMPLE AT REGULAR INTERVAL TO MONITOR THE COOLING SYSTEM.
07/21/2021	7,896	TRANSMISSION	Monitor	UNKNOWN HOURS ON OIL. PARTICLE COUNT APPEARS ELEVATED. SEE MICROSCOPE PICTURE ATTACHED. OTHER READINGS APPEAR NORMAL. RESAMPLE AT THE NEXT SERVICE INTERVAL. INTERPRETATION BY RACHEL S. - FLUIDS TECH
01/22/2021	7,249	ENGINE	No Action Required	UNKNOWN HOURS ON OIL. NORMAL READINGS. NO PROBLEMS PRESENTLY ASSOCIATED WITH THIS SAMPLE. CONTINUE SAMPLING AT THE NORMAL INTERVAL. INTERPRETATION BY MARY C. - LAB MANAGER
07/29/2020	7,000	ENGINE	No Action Required	NORMAL READINGS. NO PROBLEMS PRESENTLY ASSOCIATED WITH THIS SAMPLE. CONTINUE SAMPLING AT THE NORMAL INTERVAL. INTERPRETATION BY RACHEL S. - FLUIDS TECH
07/29/2020	7,000	FINAL DRIVE REAR LEFT	Action Required	PARTICLE COUNT, IRON, ALUMINUM AND SILICON APPEAR ELEVATED. SEE MICROSCOPE PICTURE ATTACHED. INVESTIGATE POSSIBLE DIRT ENTRY. MAKE NECESSARY REPAIRS. RECOMMEND TO CHANGE OIL. RESAMPLE IN 250 HOURS TO MONITOR. INTERPRETATION BY RACHEL S. - FLUIDS TECH
07/29/2020	7,000	FINAL DRIVE REAR RIGHT	Monitor	PARTICLE COUNT IS SLIGHTLY ELEVATED. OTHER ANALYSIS READINGS APPEAR TO BE ACCEPTABLE. RESAMPLE IN 250 HOURS TO MONITOR. INTERPRETATION BY RACHEL S. - FLUIDS TECH
07/29/2020	7,000	HYDRAULIC SYSTEM	No Action Required	UNKNOWN HOURS ON OIL. IRON REMAINS SLIGHTLY ELEVATED, BUT HAS IMPROVED. OTHER ANALYSIS READINGS APPEAR TO BE ACCEPTABLE. RESAMPLE IN 250 HOURS TO MONITOR. INTERPRETATION BY RACHEL S. - FLUIDS TECH

07/29/2020	7,000	RADIATOR	No Action Required	ALL LEVEL 1 TESTS APPEAR NORMAL FOR ELC. CONTINUE TO USE THIS COOLANT. SAMPLE AGAIN AT THE REGULAR INTERVAL TO MONITOR THE COOLING SYSTEM. INTERPRETATION BY RACHEL S. - FLUIDS TECH
07/29/2020	7,000	TRANSMISSION	No Action Required	NORMAL READINGS. NO PROBLEMS PRESENTLY ASSOCIATED WITH THIS SAMPLE. CONTINUE SAMPLING AT THE NORMAL INTERVAL. INTERPRETATION BY RACHEL S. - FLUIDS TECH
03/23/2020	6,421	ENGINE	No Action Required	NORMAL READINGS. NO PROBLEMS PRESENTLY ASSOCIATED WITH THIS SAMPLE. CONTINUE SAMPLING AT THE NORMAL INTERVAL. INTERPRETATION BY MARY C. - LAB MANAGER
11/18/2019	6,041	ENGINE	Monitor	UNKNOWN HOURS ON OIL. SILICON IS SLIGHTLY ELEVATED. HIGHER SILICON CONCENTRATION DOES NOT APPEAR TO HAVE AFFECTED WEAR. OTHER ANALYSIS READINGS APPEAR TO BE ACCEPTABLE. RESAMPLE IN 250 HOURS TO MONITOR. INTERPRETATION BY MARY C. - LAB MANAGER
11/18/2019	6,041	FINAL DRIVE REAR LEFT	Monitor	UNKNOWN HOURS ON OIL. MODERATE VISCOSITY LOSS IS OBSERVED. PARTICLE COUNT IS SLIGHTLY ELEVATED. OTHER ANALYSIS READINGS APPEAR TO BE ACCEPTABLE. RESAMPLE IN 250 HOURS TO MONITOR. INTERPRETATION BY MARY C. - LAB MANAGER
11/18/2019	6,041	FINAL DRIVE REAR RIGHT	Monitor	UNKNOWN HOURS ON OIL. MODERATE VISCOSITY LOSS IS OBSERVED. PARTICLE COUNT IS SLIGHTLY ELEVATED. OTHER ANALYSIS READINGS APPEAR TO BE ACCEPTABLE. RESAMPLE IN 250 HOURS TO MONITOR. INTERPRETATION BY MARY C. - LAB MANAGER
11/18/2019	6,041	HYDRAULIC SYSTEM	No Action Required	UNKNOWN HOURS ON OIL. IRON REMAINS ELEVATED. OTHER ANALYSIS READINGS APPEAR TO BE ACCEPTABLE. RESAMPLE IN 250 HOURS TO MONITOR. INTERPRETATION BY MARY C. - LAB MANAGER
11/18/2019	6,041	RADIATOR	Monitor	SAMPLE HAS SLIGHTLY CLOUDY APPEARANCE, POSSIBLY DUE TO TRACE AMOUNT OF SOLIDS PRESENT. SOLIDS ARE BLACK AND NON-MAGNETIC. OTHER READINGS APPEAR NORMAL. CONTINUE TO USE THIS COOLANT. SAMPLE AGAIN AT THE REGULAR INTERVAL TO MONITOR THE COOLING SYSTEM. INTERPRETATION BY RACHEL S. - FLUIDS TECH
11/18/2019	6,041	TRANSMISSION	No Action Required	NORMAL READINGS. NO PROBLEMS PRESENTLY ASSOCIATED WITH THIS SAMPLE. CONTINUE SAMPLING AT THE NORMAL INTERVAL. INTERPRETATION BY MARY C. - LAB MANAGER
08/02/2019	5,700	ENGINE	No Action Required	NORMAL READINGS. NO PROBLEMS PRESENTLY ASSOCIATED WITH THIS SAMPLE. CONTINUE SAMPLING AT THE NORMAL INTERVAL. INTERPRETATION BY MARY C. - LAB MANAGER
08/02/2019	5,700	HYDRAULIC SYSTEM	Monitor	UNKNOWN HOURS ON OIL. IRON REMAINS ELEVATED. OTHER ANALYSIS READINGS APPEAR TO BE ACCEPTABLE. RESAMPLE IN 250 HOURS TO MONITOR. INTERPRETATION BY MARY C. - LAB MANAGER
08/02/2019	5,700	TRANSMISSION	No Action Required	NORMAL READINGS. NO PROBLEMS PRESENTLY ASSOCIATED WITH THIS SAMPLE. CONTINUE SAMPLING AT THE NORMAL INTERVAL. INTERPRETATION BY MARY C. - LAB MANAGER
02/13/2019	5,148	ENGINE	Monitor	UNKNOWN HOURS ON OIL. SODIUM REMAINS ELEVATED BUT HAS IMPROVED. GLYCOL TEST IS NEGATIVE. OTHER ANALYSIS READINGS APPEAR TO BE ACCEPTABLE. RESAMPLE IN 250 HOURS TO MONITOR. INTERPRETATION BY MARY C. - LAB MANAGER
02/13/2019	5,148	FINAL DRIVE REAR LEFT	No Action Required	UNKNOWN HOURS ON OIL. PARTICLE COUNT IS SLIGHTLY ELEVATED. OTHER ANALYSIS READINGS APPEAR TO BE ACCEPTABLE. RESAMPLE AT THE NEXT SERVICE INTERVAL. INTERPRETATION BY MARY C. - LAB MANAGER
02/13/2019	5,148	FINAL DRIVE REAR RIGHT	No Action Required	UNKNOWN HOURS ON OIL. PARTICLE COUNT IS SLIGHTLY ELEVATED. IRON IS SLIGHTLY ELEVATED FROM TREND. OTHER ANALYSIS READINGS APPEAR TO BE ACCEPTABLE. RESAMPLE AT THE NEXT SERVICE INTERVAL. INTERPRETATION BY MARY C. - LAB MANAGER
02/13/2019	5,148	HYDRAULIC SYSTEM	Monitor	UNKNOWN HOURS ON OIL. IRON IS ELEVATED. OTHER ANALYSIS READINGS APPEAR TO BE ACCEPTABLE. RESAMPLE IN 250 HOURS TO MONITOR. INTERPRETATION BY MARY C. - LAB MANAGER
02/13/2019	5,148	TRANSMISSION	No Action Required	UNKNOWN HOURS ON OIL. NORMAL READINGS. NO PROBLEMS PRESENTLY ASSOCIATED WITH THIS SAMPLE. CONTINUE SAMPLING AT THE NORMAL INTERVAL. INTERPRETATION BY MARY C. - LAB MANAGER

10/02/2018	4,757	ENGINE	Action Required	SODIUM IS HGH. POTASSIUM IS ELEVATED. GLYCOL TEST IS POSITIVE. OTHER ANALYSIS READINGS APPEAR TO BE ACCEPTABLE. INSPECT FOR SOURCE OF WATER/GLYCOL ENTRY INTO THE SYSTEM. AFTER REPAIR, CHANGE THE OIL AND FILTER(S). BRING ENGINE UP TO OPERATING TEMPERATURE AND TAKE A BASELINE SAMPLE. RE-SAMPLE AT HALF NORMAL SAMPLE INTERVAL AFTER BASELINE TO VERIFY NO FURTHER COOLANT ENTRY. INTERPRETATION BY MARY C. - LAB MANAGER
07/30/2018	4,499	ENGINE	Monitor	THE OIL VISCOSITY @ 100C IS HIGH FOR A 10W-30. MODERATELY ELEVATED SOOT LEVEL MAY RELATE TO INTAKE RESTRICTION, A/F RATIO, ENG. TEMP, OIL SERVICE. OTHER ANALYSIS READINGS APPEAR TO BE ACCEPTABLE. CHECK THE AIR FILTER FOR CLOGGING. RESAMPLE AT THE NEXT SERVICE INTERVAL. INTERPRETATION BY MARY C. - LAB MANAGER
07/30/2018	4,499	FINAL DRIVE REAR LEFT	No Action Required	SOME VISCOSITY LOSS OBSERVED. PARTICLE COUNT IS SLIGHTLY ELEVATED. OTHER ANALYSIS READINGS APPEAR TO BE ACCEPTABLE. RESAMPLE AT THE NEXT SERVICE INTERVAL. INTERPRETATION BY MARY C. - LAB MANAGER
07/30/2018	4,499	FINAL DRIVE REAR RIGHT	No Action Required	PARTICLE COUNT IS SLIGHTLY ELEVATED. OTHER ANALYSIS READINGS APPEAR TO BE ACCEPTABLE. RESAMPLE AT THE NEXT SERVICE INTERVAL. INTERPRETATION BY MARY C. - LAB MANAGER
07/30/2018	4,499	HYDRAULIC SYSTEM	No Action Required	IRON REMAINS SLIGHTLY ELEVATED BUT HAS IMPROVED. OTHER ANALYSIS READINGS APPEAR TO BE ACCEPTABLE. RESAMPLE AT THE NEXT SERVICE INTERVAL. INTERPRETATION BY MARY C. - LAB MANAGER
07/30/2018	4,499	TRANSMISSION	No Action Required	NORMAL READINGS. NO PROBLEMS PRESENTLY ASSOCIATED WITH THIS SAMPLE. CONTINUE SAMPLING AT THE NORMAL INTERVAL. INTERPRETATION BY MARY C. - LAB MANAGER

Configuration

Configuration Code	Price List	Description
D8T		Medium Ttt (D5r,D6,D7,D8)
0P9003	MAC1	LANE 3 ORDER
		2012 CAT D8T TRACTOR
		2012 CAT D8T TRACTOR
3343576	MAC1	CATERPILLAR PRODUCT LINK PL321
		EROPS
		EROPS
		RIPPER, MULTI SHANK 1-SHANK
3254812	MAC1	FAN, AUTO REVERSING
		RIPPER, MULTI SHANK 1-SHANK
		AIR CONDITIONER
3397915	MAC1	OIL CHANGE SYSTEM, POWERTRAIN
		AIR CONDITIONER
		ULTRA LOW SULFUR DIESEL FUEL
3254818	MAC1	SERVICE PACKAGE
		ULTRA LOW SULFUR DIESEL FUEL
		BLADE, SEMI U
		BLADE, SEMI U
1598862	MAC1	TRACK, 24" ES (44SEC) TRAP PPR
		24" TRACK SHOES
3254813	MAC1	HYDRAULICS, RIPPER
		24" TRACK SHOES
1905153	MAC1	BATTERIES, COLD WEATHER
		FAN,AUTO REVERSING
		FAN,AUTO REVERSING
		OIL CHANGE SYSTEM, POWERTRAIN
		OIL CHANGE SYSTEM, POWERTRAIN
3393077	MAC1	GUARD, FUEL TANK

3388656	MAC1	CYLINDER, LIFT WITH LINES- RH
		RIPPER HYDRAULICS
		RIPPER HYDRAULICS
3388657	MAC1	CYLINDER, LIFT WITH LINES- LH
		FUEL TANK GUARD
		FUEL TANK GUARD
		CYLINDER, LIFT WITH LINES- RH
3437191	MAC1	PACKAGE, 8SU/U BULLDOZER
		CYLINDER, LIFT WITH LINES- RH
		CYLINDER, LIFT WITH LINES- LH
		CYLINDER, LIFT WITH LINES- LH
2453569	MAC1	8U BLADE AS W/RK GRD& W.PLT
3400667	MAC1	RADIATOR, DEBRIS
		PACKAGE, 8SU BULLDOZER
		PACKAGE, 8SU BULLDOZER
		8U BLADE AS W/RK GRD&W PLT
4T8987	MAC1	TOOTH, MULTISHANK RIPPER
		8U BLADE AS W/RK GRD&W PLT
OP2406	MAC1	ANTIFREEZE, -50C (-58F)
		RADIATOR, DEBRIS
		RADIATOR, DEBRIS
OP0210	MAC1	PACK, DOMESTIC TRUCK
		AS IS AS RECEIVED
		AS IS AS RECEIVED
3254832	MAC1	PACKAGE 8 RIPPER MULTI-SHANK
		OP0800/4061 RN 4-6-17
		OP0800/4061 RN 4-6-17
OP5203	MAC1	EMA
3343661	MAC1	LIGHTS, TEN, HID, HI-MOUNT
	MAC1	8 RIPPER MS, S/N TDD01635
D8T		Medium Ttt (D5r, D6, D7, D8)

PIP / PSP

Start Date	End Date	PIP No.	PIP Type	Hrs Req.	Description	Status
03/19/2012	03/31/2013	PS43542	C	2.00	Adding phosphate coolant additive to the	Expired
04/02/2012	04/30/2014	PS43554	C	2.00	Product support program to inspect the e	Expired
05/15/2012	05/31/2014	PS43599	C	1.00	Reworking turbocharger intake piping on	Expired
10/05/2012	10/31/2014	PS52305	A	2.00	Replacing the fuse block assembly on cer	Expired
10/08/2012	10/31/2014	PS43720	C	6.00	Reworking the dust ejector tube on certa	Expired
07/03/2013	07/31/2015	PS43950	C	4.00	Replacing isolation mounts on the conden	Expired
03/17/2014	03/31/2016	PS44221	C	6.00	Updating the coolant lines and coolant f	Expired
03/26/2014	03/31/2015	PS44233	C	1.50	Updating product link software on certai	Expired
04/22/2014	04/30/2017	PS44266	C	1.00	Updating heating, ventilation, and air c	Complete
09/05/2014	09/30/2016	PS52757	A	8.00	Replacing the evaporator coil in the hea	Expired
09/25/2014	09/30/2016	PS52772	A	8.00	Replacing the guard rail on the left han	Expired
11/03/2014	11/30/2016	PS44534	C	1.50	Inspecting and positioning the cem harne	Expired
06/29/2015	12/31/2016	PS52974	A	1.50	Updating software on certain off-highway	Expired
10/17/2016	10/31/2018	PS53322	A	10.00	Replacing the nrs cooler on certain d8t	Expired

Historical Warranty

Product Code	Description	Start Date	End Date	Start Hours	End Hours
D8T	36/5000 POWERTRAIN	02/24/2012	02/24/2015	0	0

XPTL	POWERTRAIN ONLY	02/24/2012	02/24/2015	0	5000
S1UL	MANUFACTURERS	02/24/2012	02/24/2013	0	0
TTM	TRAVEL TIME	02/24/2012	06/24/2012	0	0
S1UL	MANUFACTURERS	02/24/2012	02/24/2013	0	0
XPTL	POWERTRAIN ONLY	02/24/2012	02/24/2015	0	5000
TTM	TRAVEL TIME	02/24/2012	06/24/2012	0	0