**Year:** 2015

Serial Number: WTC00179 Product Family: WHEEL TRACTOR SCRAPER

**Model:** 627K

SMU / Hours:

## SERVICE HISTORY (670 Records)

Invoice Date	Invoice Type	SMU / Hours	Description	Notes
Oct 10, 2024	Parts			
Apr 18, 2024	Parts			
Feb 20, 2024	Parts			
Jan 24, 2024	Parts			
Sep 14, 2023	Service	8,705	Additional Charges 500 Service Hour Maint	
Sep 14, 2023	Service	8,705	Perform 500 Service Hour Maint	
Jul 10, 2023	Service	7,806	Repair For Warranty Software	Tech id: 5791 wednesday, july 5, 2023 9:36 am - software out of date repair comments performed pi33483 letter. updated software and calibrated transmission clutch.
Jul 10, 2023	Service	7,806	Travel To/from Work Area	
Jul 10, 2023	Service	7,806	Travel To/from Work Area	
Jul 10, 2023	Service	7,806	Repair For Warranty Software	Tech id: 5791 wednesday, july 5, 2023 9:36 am - software out of date repair comments performed pi33483 letter. updated software and calibrated transmission clutch.
Jun 13, 2023	Parts			
May 05, 2023	Parts			
May 04, 2023	Parts			
Nov 21, 2022	Service	8,705	Troubleshoot Engine	Customer states codes need cleared

Nov 21, 2022	Service	8,705	Troubleshoot Work Area	Travel
Oct 09, 2022	Service	8,705	Troubleshoot Engine	T/s front engine emission codes on machine
Oct 09, 2022	Service	8,705	Travel To/from Work Area	
Oct 05, 2022	Service	8,605	Troubleshoot Engine	T/s egr pressure sensor code flashing on machine
Oct 05, 2022	Service	8,605	Troubleshoot Engine	T/s emission code issues on rear engine this time-
Oct 05, 2022	Service	8,605	Travel To/from Work Area	
Sep 13, 2022	Service	6,887	Additional Charges Pm 4	
Sep 13, 2022	Service	6,887	Perform Pm 4	
Aug 07, 2022	Service	8,000	Travel To/from Work Area	
Aug 07, 2022	Service	8,000	Troubleshoot Clean Emissions Module	Dpf level high, code e995 & ard code e1062 again.
Jun 21, 2022	Service	7,235	Troubleshoot Engine	T/a dpf level high, code e995 & ard code e1062
May 11, 2022	Service	7,235	Travel To/from Work Area	

May 11, 2022	Service	7,235	Troubleshoot Clean Emissions Module	REPAIR COMMENTS TECH ID: 5784ARRIVED ON SITE, FILLED OUT JSA, HOOKED ET TO MACHINE, FOUND FRONT AND REAR ENGINES TO HAVE EMISSION CODES, INSPECTED REAR ENGINE, FOUND FUEL LINE GOING TO TRANSFER PUMP TO BE LOOSE AND LEAKING FUEL, INSTALLED NEW SEAL ON FITTINGS AND TIGHTENED FUEL LINES TO SPEC, REMOVED DIFFERENTIAL PRESSURE SENSOR ON REAR ENGINE AND CLEANING SENSOR REAR PERFORMED AFTERTREATMENT FUNCTIONAL TEST-PASS, FRONT ENGINE HAD CODES OF LOW AFTERTREATMENT FUEL CODES, HOOKED GAUGE TO FUEL LINES GOING TO ARD HEAD, CAT SPEC IS 274 +/- FUEL/WATER SEPARATOR AND FOUND BOWL TO BE FULL DIRT, REPLACED ALL THREE FUEL FILTERS ON FRONT ENGINE AND PERFORMED AFTERTREATMENT FUNCTIONAL TEST-PASS, OPERATED MACHINE TO VERIFY FIX, RETURNED MACHINE BACK TO SERVICE T/S emissions codes on front and rear engine T/S EMISSIONS CODES ON FRONT AND REAR ENGINE
Apr 19, 2022	Service	6,598	Rework Repair Ejector Cylinder	Damaged head bushing during install, had to DAMAGED HEAD BUSHING DURING INSTALL, HAD TO REPLACE WITH NEW -

				CUSTOMER COMPLAINT: T/S CUSTOMER STATES EJECTOR IS
				STILL SLOW REPAIR PROCESS COMMENTS: WHILE MACHINE
				WAS WARM I TESTED THE BOWL AND EJECTOR CYLINDER
				CYCLE TIMES. ALL TIMES WERE WITHIN SPEC EXCEPT FOR
				EIECTOR RETRACT TIME. SPEC FOR THIS CYCLE WAS 6.65 +-
				0.5 SECONDS. AVERAGE TIME FOR RETRACTION OF THE
				CYLINDER WAS 9.0 SECONDS. T/S THIS ISSUE AND FOUND
				BOWL/EJECTOR PILOT RELIEF VALVE WAS OUT OF SPEC. SPEC
				IS 3740 PSI TEST ACTUAL READING WITH TWO DIFFERENT
				GAUGES WAS 3450. ATTEMPTED TO ADJUST RELIEF VALVE,
				TURNED SET SCREW IN 3/4 TURN UNTIL IT WAS BOTTOMED
				OUT. RETESTED PRESSURE AND FOUND THE PRESSURE FROM
				THE RELIEF DID NOT CHANGE. TESTED STANDBY PRESSURE
				AND IT WAS WITHIN SPEC. TESTED PILOT PRESSURE AND IT
				WAS ALSO WITHIN SPEC. AT THIS TIME THE BOWL/EJECTOR
				RELIEF VALVE NEEDS TO BE REPLACED AND RETESTED.
				LOOKED UP AND ORDERED ONCE PARTS ARRIVE. CLEANED
				UP WORK AREA, WROTE SERVICE REPORT AND LEFT THE JOB
				SITE. REPAIR PROCESS COMMENTS: CALLED SHOP PARTS
				AND THEY INFORMED ME THE NEW EJECTOR RELIEF VALVE
				WAS IN. PICKED UP PART AND DROVE TO JOB SITE.
			Troubleshoot Hydraulic	INSTALLED NEW RELIEF VALVE. STARTED AND WARMED UP
Apr 19, 2022	Service	6,598	System	MACHINE AND HYDRAULICS. FOUND THE CYCLE TIMES WERE
				STILL THE SAME. CONTINUED TESTING AND AFTER THE
				HYDRAULICS GOT HOT, I FOUND THE EJECTOR CYLINDER
				WOULD DRIFT TOWARDS THE FRONT OF THE BOWL IF THE
				BOWL WAS NOT LEVEL OR UPRIGHT. INSPECTED CYLINDER
				CLOSER AND FOUND THE CYLINDER ROD SEAL WAS LEAKING
				HEAVILY. CONTACTED CUSTOMER AND INFORMED HIM WE
				WOULD HAVE TO REPAIR THE HYDRAULIC CYLINDER BEFORE
				I COULD CONTINUE T/S THE SLOW CYCLE TIMES. HE AGREED.
				SCHEDULED TO PULL EJECTOR CYLINDER ON MONDAY.
				CLEANED UP WORK AREA, WROTE SERVICE REPORT AND
				DROVE OUT TO LOCATION. REMOVED CYLINDER WITH THE
				HELP OF BRANDON. LOADED CYLINDER INTO TRUCK.
				TAGGED MACHINE OUT. CLEANED UP WORK AREA. TOOK
				SHOP FOR REPAIRS. CLOCKED OFF OF JOB. REPAIR PROCESS
				COMMENTS: WENT TO MACHINE INSTALLED EJECTOR
				CYLINDER IN TO MACHINE. THEN TESTED MACHINE FOR
				PROPER OPERATION. T/s customer still says his ejector
				function is T/S CUSTOMER STILL SAYS HIS EJECTOR FUNCTION IS STILL SLOW, REF 0K98322 FOR PREV REPAIR

Apr 19, 2022	Service	6,598	Recondition Ejector Cylinder	CUSTOMER COMPLAINT: POSSIBLE BYPASSING CAUSE OF FAILURE: PISTON SEAL MISSING, BARREL SCORED RESULTANT DAMAGE: DISASSEMBLED CYLINDER AND FOUND THAT THE PISTON SEAL WAS GONE. HONED BARREL TO REMOVE SCORING. ROD HAS IMPACT DAMAGE AND SOME PITTING THROUGH THE CHROME. ROD WILL NOT MAKE REUSE. THE PISTON IS GOOD FOR REUSE. THE HEAD BUSHING HAS THE TEFLON WORN OFF BUT IS NOT SCORED REPLACING HEAD BUSHING. REPAIR PROCESS COMMENTS: CYLINDER ROD WAS RECHROMED. INSTALLED NEW SEALS ONTO HEAD AND PISTON. INSTALLED HEAD AND PISTON 3762 LB/FT WITH RED LOCTITE. INSTALLED ROD INTO CYLINDER BARREL AND TORQUED HEAD BOLTS DOWN TO 350 LB/FT WITH ANTI SEIZE. INSTALLED TEST EQUIPMENT ONTO CYLINDER AND CHECKED FOR LEAKS AND DRIFT UP TO 3000 PSI. CYLINDER TESTED GOOD, REMOVED EQUIPMENT AND INSTALLED HARD LINE. WASHED AND PAINTED CYLINDER, READY FOR RETURN TO CUSTOMER. POSSIBLE BYPASSING
Apr 19, 2022	Service	6,598	Rework Repair Ejector Cylinder	Damaged head bushing during install, had to DAMAGED HEAD BUSHING DURING INSTALL, HAD TO REPLACE WITH NEW -
Apr 19, 2022	Service	6,598	Troubleshoot Drivetrain	CUSTOMER COMPLAINT: T/S TRANS LOCK BUTTON NOT ALWAYS WORKING CAUSE OF FAILURE: NO ISSUES FOUND ARRIVED ON LOCATION. OPERATOR BROUGHT MACHINE OVER TO ME. RAN MACHINE FOR 45 MINUTES USING THE TRANSMISSION LOCK IN EACH GEAR 1-7. FOUND NO ISSUES WITH ENGAGING, DISENGAGING, OR MAINTAINING TRANS LOCK. NO ISSUES FOUND FOR THIS SEGMENT. PARKED MACHINE AND MOVED ONTO NEXT SEGMENT. TRANS LOCK. NO ISSUES FOUND FOR THIS SEGMENT. PARKED MACHINE AND MOVED ONTO NEXT SEGMENT. PARKED MACHINE AND MOVED ONTO NEXT SEGMENT. T/s trans lock button not always engaging or T/S TRANS LOCK BUTTON NOT ALWAYS ENGAGING OR DISENGAGIN AT TIMES
Apr 19, 2022	Service	6,598	Travel To/from Work Area	
Apr 19, 2022	Service	6,598	Add Parts Ejector Cylinder	Rechrome \$1397.06 RECHROME \$1397.06 EXTRA TIME HONEING TO REMOVE SCOREING
Apr 12, 2022	Parts			
Apr 12, 2022	Parts			
Mar 02, 2022	Service	6,500	Travel To/from Work Area	

Mar 02, 2022	Service	6,500	Troubleshoot Hydraulic System	CUSTOMER COMPLAINT: EJECTOR FUNCTION SLOW CAUSE OF FAILURE: SOLENOID VALVE CALIBRATION REPAIR PROCESS COMMENTS: ARRIVED AT SITE, FILLED OUT JSA, LOCATED MACHINE AND PERFORMED WALKAROUND INSPECTION, TRIED BEFORE BATTERYS DIED, HOOKED BATTERY CHARGER TO MACHINE AND CHARGED BATTERYS FOR 15 MINS, REMOVED AIR FILTER AND HAD TO USE SMALL AMOUNT OF ETHER TO GET MACHINE STARTED, LET ENGINE WARM UP FOR 20 MINS AND CYCLED HYDRAULIC FUNCTIONS WHILE STALLING PUMP OUT TO WARM HYDRAULIC SYSTEM OIL, FOUND SPEC FOR CYLINDER CYCLE TIME ON SIS AND TESTED, EJECTOR FORWARD WAS 5.5 SECONDS AND EJECTOR BACKWARDS WAS AT 7 SECONDS, SPEC IS 6.5+5 SECONDS, CHECKED PUMP OUTLET PRESSURE AND LOAD SENSE PRESSURES AND BOTH WERE IN SPEC, HOOKED ET TO MACHINE AND PERFORMED SOLENOID VALVE CALIBRATIONS FOR EJECTOR CYLINDER, TESTED CYLINDER CYCLE TIME AFTER CALIBRATION AND EJECTOR IS IN SPEC FOR BOTH FORWARD AD BACKWARDS. PICKED UP WORK AREA, RETURNED TO WECO. T/S the ejector function is real slow on machine T/S THE EJECTOR FUNCTION IS REAL SLOW ON MACHINE
Jan 27, 2022	Service	6,532	Travel To/from Work Area	

Jan 27, 2022	Service	6,532	Troubleshoot Engine	CUSTOMER CONCERN - TECH ID: 6122 TUESDAY, JANUARY 18, 2022 - CAN DATA LINK CODE AND CLEAN EMISSION CODES. REPAIR COMMENTS - ARRIVED AT MACHINE AND COMPLETED A WALK AROUND AND JSA. CONNECTED ET AND RETRIVED CODES AND A PSR. FOUND CODE 246- 9 PROPRIETARY CAN DATA LINK : ABNORMAL UPDATE, 1893 - 9 INERTIAL MEASUREMENT SENSOR : ABNORMAL UPDATERATE, 96- 3 FUEL LEVEL SENSOR : VOLTAGE ABOVE NORMAL. FOUND FUEL LEVEL SENSOR : VOLTAGE ABOVE NORMAL. FOUND FUEL LEVEL SENDER WAS UNPLUGGED. RE CONNECTED AND CODE WENT AWAY. INSPECTED INERTIAL SENSOR AND FOUND A BROKEN WIRE IN JUMPER HARNESS, ORDERED AND REPLACED SENSOR WITH JUMPER HARNESS. FOUND THAT ALL THE ECMS WHERE OUT OF DATE, UPDATED ALL THE TRANSMISSION SOFTWARE THE MACHINE SET CODES FOR WHEEL SPEED SENSOR INCORRECT READINGS. WENT AND INSPECTED WHEEL SPEED SENSORS AND FOUND THE RIGHT SIDE WAS UNPLUGGED AND THE LEFT ONE WAS NEVER SENSOR AND PLUGGED IN THE RIGHT ONE. CODES WITH LOW BRAKE PRESSURE WARNING SETTING ONLY FOR A SECOND AFTER DEPRESSING THE BRAKE, RAN TO SHOP TO GET ACCUMULATOR CHARGE KIT AND RETURNED TO SITE AND FOUND ONE OF THE ACCUMULATORS ONLY HAD 150 PSI AND SPEC TODAY IS 711 PSI. RECHARGED AND TESTED BRAKES. GOOD AT THIS TIME. CONTACTED CUSTOMER AND RELEASED MACHINE. T/S EMISSIONS ISSUE/ dpf high soot T/S EMISSIONS ISSUE/ DPF HIGH SOOT ALSO A DATA LINK ISSUE ON MACHINE
Jan 27, 2022	Service	6,532	Replace Brake Accumulator	CUSTOMER CONCERN - LOW BRAKE PRESSURE ALARM GOING OFF CAUSE OF FAILURE - SEALS INSIDE BRAKE ACCUMULATOR LEAKING NITROGEN CHARGE. REPAIR COMMENTS - ORDERED BRAKE ACCUMULATOR AND WHEN PART CAME CHECKED OPERATION AND GOOD AT THIS TIME. Replace brake accumulator on machine REPLACE BRAKE ACCUMULATOR ON MACHINE
Jan 27, 2022	Service	6,532	Repair Wheel Speed Sensor	CUSTOMER CONCERN TECH ID: 6122 MONDAY, JANUARY 17, 2022 - SOFTWARE UPDATE; NO RIGHT FRONT WHEEL SPEED SENSOR INSTALLED. REPAIR COMMENTS - REMOVED WHEEL SPEED SENSOR PLATE COVER, INSERTED FEELER GAUGE TO MEASURE OUT WHAT SIZE OF SPACERS ARE NEEDED FOR INSTALLATION. INSTALLED NEW WHEEL SPEED SENSOR HARNESS ADAPTER ON SAME SIDE WITH NEW MOUNTING BRACKETS, REINSTALLED COVER PLATES TO WIRING HARNESS. Install wheel speed sensor on left side that was INSTALL WHEEL SPEED SENSOR ON LEFT SIDE THAT WAS NEVER INSTALLED
Dec 29, 2021	Service	6,505	Travel To/from Work Area	

Dec 29, 2021	Service	6,505	Troubleshoot Clean Emissions Module	12-17-21 4829 ARRIVED AT CUSTOMER SITE AND LOCATED MACHINE. HOOKED UP ET AND PULLED PRODUCT STATUS REPORT. USED ET AND CHECKED FOR ACTIVE CODES. MACHINE HAS ACTIVE CODE FOR LOW FUEL PRESSURE AND HIGHT SOOT LEVEL AFTERTREATMENT SYSTEM 1. USED ET AND RAN MANUAL REGERNATION. MANUAL REGENERATION COMPLETED 100% AND ALL ACTIVE CODES BECAME LOG. HAD OPERATOR RUN MACHINE TO CONFIRM REPAIRS. OPERATOR RETURN WITH MACHINE AND CONFIRM THAT ENGINE IS RUNNING PROPERLY. CALLED AND INFORMED CUSTOMER MACHINE HAS BEEN REPAIRED. CLEANED UP WORK AREA. JOB COMPLETED. JOB COMPLETED. Troubleshoot dpf level high and ard faults TROUBLESHOOT DPF LEVEL HIGH AND ARD FAULTS
Dec 08, 2021	Service	7,235	Travel To/from Work Area	
Dec 08, 2021	Service	7,235	Troubleshoot Engine	CUSTOMER COMPLAINT: UNIT HAS RE GEN CODES UNKNOWN RESULTANT DAMAGE: DID NOT RE GEN REPAIR PROCESS COMMENTS: TALKED WITH CUSTOMER AND THE HAD UNIT DOWN FOR RE GEN ISSUES. HOOKED UP E.T. AND FOUND ACTIVE EVENT FOR SOOT LOAD HIGH AND NO OTHER CODES. SOOT LEVEL WAS 113%. STARTED UNIT AND LET WARM UP USED E.T. TO RUN MANUEL RE GEN WHICH COMPLETED FINE. RAN ASH RE GEN AND IT COMPLETED FINE CLEARED LOGGED EVENT AND TALKED WITH CUSTOMERS MECHANIC, INFORMED HIM WHAT I FOUND AND DID AND TOLD HIM TO CALL IF UNIT DID IT AGAIN. HAVE NOT HEARD BACK FROM CUSTOMER. OP'S CHECK GOOD AT THIS TIME. Regen locked out. e992 and e996 REGEN LOCKED OUT. E992 AND E996
Nov 02, 2021	Service	6,284	Travel To/from Work Area	
Nov 02, 2021	Service	6,284	Furnish **use 608** Apron Lift Cylinder	RESULTANT DAMAGE: ROD FAILURE ROD END FRACTURED UNABLE TO MAKE REUSE. BARREL HAD SEVERE DAMAGE AND IS WITHIN .001 OF BEING OUT OF SPEC WILL NOT HAVE ENOUGH MATERIAL TO REMOVE DAMAGE AND STILL BE WITHIN SPEC RECOMMEND REPLACING WITH NEW. FOUND SENSOR TO BE BENT AND DAMAGED RECOMMEND REPLACING WITH NEW. FOUND PISTON BORE TO HAVE SEVERE DAMAGE UNABLE TO REPAIR RECOMMEND GETTING NEW PISTON. FOUND BARREL EYE BEARINGS TO BE DAMAGED RECOMMEND REPLACING WITH NEW. FOUND TRUNNION BEARINGS TO BE DAMAGED RECOMMEND REPLACING WITH NEW. REPAIR PROCESS COMMENTS: 5649 10/12/2021 - NEW CYLINDER GROUP WAS ORDERED AS PER CUSTOMER REQUEST.

Nov 02, 2021	Service	6,284	Recondition Apron Lift Cylinder	**REPAIR SPECIFICATION INCLUDES** -CHECK ROD FOR STRAIGHTNESS AND ROUNDNESS -CHECK THREADS -HONE AS NEEDED TO.003 INCHES -RESEAL HEAD AND PISTON - TORQUE NUT TO PROPER SPECIFICATIONS -TEST FOR LEAKAGE AND OPERATION -PAINT **AVAILABLE AS NEEDED AT ADDITIONAL COST** -SALVAGE WEAR BAND -RECHROME OR POLISH ROD -SALVAGE OR REPLACE CYLINDER ROD, PISTON, HEAD,NUT OR BARREL -BUILD AND BORE ROD EYE OR BARREL EYE -INSTALL NEW MOUNTINGS, BEARINGS AND SEALS -RESEAL QUICK DROP VALVES IF APPLICABLE -REROD - RETUBE -HONE OVERSIZE -CHARGES FOR UNACCEPTABLE CORES CUSTOMER COMPLAINT: RECONDITION APRON LIFT CYLINDER CAUSE OF FAILURE: ROD FAILURE - FRACTURED RESULTANT DAMAGE: RECOMMEND REPLACING WITH NEW OR REMAN ROD. FOUND SEALS TO BE DAMAGED RECOMMEND REPLACING WITH NEW. FOUND DAMAGE AND SCORING IN BARREL AND CYLINDER IS .001 AWAY FROM BEING OUT OF SPEC WILL NOT BE ABLE TO HONE OUT RECOMMEND REPLACING WITH NEW. FOUND SENSOR TO BE BENT AND DAMAGED RECOMMEND REPLACING WITH NEW. FOUND BARREL EYE BEARINGS TO BE DAMAGED RECOMMEND REPLACING WITH NEW. FOUND SENSOR TO BE BENT AND DAMAGED RECOMMEND REPLACING WITH NEW. FOUND BARREL EYE BEARINGS TO BE DAMAGED RECOMMEND REPLACING WITH NEW. FOUND PISTON BORE TO HAVE DAMAGE UNABLE TO REPAIR RECOMMEND REPLACING WITH NEW. FOUND PISTON BORE TO HAVE DAMAGE UNABLE TO REPAIR RECOMMEND REPLACING WITH NEW. HEAD WILL MAKE REUSE. RECOMMEND REPLACING ENTIRE CYLINDER DUE TO BEING MORE COST EFFICIENT. REPAIR PROCESS COMMENTS: 5649 10/12/2021 - INSTALLED HARDLINE ON NEW CYLINDER GROUP. INSTALLED NEW HARNESS ON HARDLINE. INSTALLED NEW BEARINGS INTO BARREL MOUNT. UNABLE TO INSTALLED
				GROUP. INSTALLED NEW HARNESS ON HARDLINE. INSTALLED
				ON PALLET. Rod broken ROD BROKEN

Nov 02, 2021	Service	6,284	Troubleshoot Apron	CUSTOMER CONCERN TECH ID: 5436 - THURSDAY, SEPTEMBER 30, 2021 T/S INOP APRON REPAIR COMMENTS - CALLED CUSTOMER AND TRAVELED TO JOB SITE LOCATED MACHINE AND DOWNLOADED PSR ACTIVE DATA LINK FAULTS PRESENT NO DATA LINK FAULTS PERTAIN TO APRON PERFORMED WALK AROUND, NO FAULTS FOUND STARTED MACHINE AND LET RUN TO OPERATING TEMP VERIFIED CONCERN, APRON WILL NOT LIFT DURING OPERATION OF MACHINE YOU COULD SEE APRON CYLINDER MOVING SLIGHTLY CHECKED THAT APRON WAS NOT BENT OR SEIZED. APRON - APRON CIRCUIT IS LOOSING PRESSURE AND DRIFTING OFF, POSSIBLE RELIEF FAULT SWAPPED PILOT RELIEFS WITH WTCO0164 FAULT STILL PRESENT, WILL HAVE TO FURTHER DISASSEMBLY CONTROL VALVE. 5436 10/4 - ARRIVED AT MACHINE FILLED OUT JSA REMOVED LINK FROM APRON AND CONNECTED CRANE TO - USED CRANE LIFT ON CYLINDER ROD, ROD CAME OUT OF CYLINDER REVEALING BROKEN CYLINDER ROD REMOVED CYLINDER REVEALING BROKEN CYLINDER ROD REMOVED CYLINDER FROM MACHINE AND INSPECTED BORE, MULTIPLE AREAS DAMAGED BOTH ON ROD AND PISTON MATERIAL MISSING FROM BOTH PISTON AND ROD, POSSIBLY INDICATING COMPONENT SHOP REBUILD ROOT CAUSE OF FAILURE WILL BE DETERMINED WITH COMPONENT SHOP. 5436 10/5 - DROPPED OFF CYLINDER STAMPED POSSIBLY INDICATING CONCERN TECH ID: 5328 - APRON CYLINDER, FINNED CYLINDER AND APRON. CHANGED HYDRAULIC FILTERS AND SCREENS. FILLED HYDRAULIC OIL WITH CUSTOMER'S OIL. STARTED MACHINE, CHECKED FOR LEAKS, NONE FOUND. CHECKED OPERATION OF APRON. REPAIR COMMENTS TECH ID: 5436 - THURSDAY, SEPTEMBER 30, 2021 T/S INOP APRONTECH ID: 5328 - APRON CYLINDER, FILMED CYLINDER AND APRON. CHANGED HYDRAULIC FILTERS AND SCREENS. FILLED HYDRAULIC OIL WITH CUSTOMER'S OIL. STARTED MACHINE, CHECKED FOR LEAKS, NONE FOUND. CHECKED OPERATION OF APRON. REPAIR COMMENTS TECH ID: 5436 - THURSDAY, SEPTEMBER 30, 2021 - 5436 9/30- CALLED CUSTOMER AND TRAVELED TO JOB SITE LOCATED MACHINE AND DOWNLOADED PSR ACTIVE DATA LINK FAULTS PRESENT NO DATA LINK FAULTS PERTAIN TO APRON PERFORMED WALK AROUND, NO FAULTS FOUND STARTED MA

Nov 02, 2021	Service	6,284	Troubleshoot Apron	CUSTOMER CONCERN TECH ID: 5436 – THURSDAY, SEPTEMBER 30, 2021 T/S INOP APRON REPAIR COMMENTS - CALLED CUSTOMER AND TRAVELED TO JOB SITE LOCATED MACHINE AND DOWNLOADED PSR ACTIVE DATA LINK FAULTS PRESENT NO DATA LINK FAULTS PETAIN TO APRON PERFORMED WALK AROUND, NO FAULTS FOUND STARTED MACHINE AND LET RUN TO OPERATING TEMP VERIFIED CONCERN, APRON WILL NOT LIFT DURING OPERATION OF MACHINE YOU COULD SEE APRON CYLINDER MOVING SLIGHTLY CHECKED THAT APRON WAS NOT BENT OR SEIZED. APRON - APRON CIRCUIT IS LOOSING PRESSURE AND DRIFTING OFF, POSSIBLE RELIEF FAULT SWAPPED PILOT RELIEFS WITH WTCO0164 FAULT STILL PRESENT, WILL HAVE TO FURTHER DISASSEMBLY CONTROL VALVE. 5436 10/4 - ARRIVED AT MACHINE FILLED OUT JSA REMOVED LINK FROM APRON AND CONNECTED CRANE TO - USED CRANE LIFT ON CYLINDER ROD, ROD CAME OUT OF CYLINDER REVEALING BROKEN CYLINDER ROD REMOVED CYLINDER FROM MACHINE AND INSPECTED BORE, MULTIPLE AREAS DAMAGED BOTH ON ROD AND PISTON MATERIAL MISSING FROM BOTH PISTON AND ROD, POSSIBLE HYDRAULIC CLEAN OUT NEEDED CYLINDER STAMPED POSSIBLE INDICATING COMPONENT SHOP REBUILD ROOT CAUSE OF FAILURE WILL BE DETERMINED WITH COMPONENT SHOP. CUSTOMER CONCERN TECH ID: 5436 THURSDAY, SEPTEMBER 30, 2021 T/S INOP APRONTECH ID: 5328 - APRON CYLINDER, PINNED CYLINDER AND APRON. CHANGED HYDRAULIC FILTERS AND SCREENS. FILLED HYDRAULIC OIL WITH CUSTOMER'S OIL. STARTED MACHINE, CHECKED FOR LEAKS, NONE FOUND. CHECKED OPERATION OF APRON. REPAIR COMMENTS TECH ID: 5436 THURSDAY, SEPTEMBER 30, 2021 - 5436 9/30- CALLED CUSTOMER AND TRAVELED TO JOB SITE LOCATED MACHINE AND DOWNLOADED PSR ACTIVE DATA LINK FAULTS PRESENT NO DATA LINK FAULTS PERTAIN TO APRON PERFORMED WALK AROUND, NO FAULTS FOUND STARTED MACHINE, CHECKED TOR LEAKS, NONE FOUND. CHECKED OPERATION OF APRON REPAIR COMMENTS TECH ID: 5436 THURSDAY, SEPTEMBER 30, 2021 - 5436 9/30- CALLED CUSTOMER AND LET RUN TO OPERATING TEMP VERIFIED CONCERN, APRON WILL NOT LIFT DURING OPERATION OF MACHINE AND LET RUN TO OPE

Nov 02, 2021	Service	6,284	Travel To/from Work Area	
Nov 02, 2021	Service	6,284	Furnish **use 608** Apron Lift Cylinder	RESULTANT DAMAGE: ROD FAILURE ROD END FRACTURED UNABLE TO MAKE REUSE. BARREL HAD SEVERE DAMAGE AND IS WITHIN .001 OF BEING OUT OF SPEC WILL NOT HAVE ENOUGH MATERIAL TO REMOVE DAMAGE AND STILL BE WITHIN SPEC RECOMMEND REPLACING WITH NEW. FOUND SENSOR TO BE BENT AND DAMAGED RECOMMEND REPLACING WITH NEW. FOUND PISTON BORE TO HAVE SEVERE DAMAGE UNABLE TO REPAIR RECOMMEND GETTING NEW PISTON. FOUND BARREL EYE BEARINGS TO BE DAMAGED RECOMMEND REPLACING WITH NEW. FOUND TRUNNION BEARINGS TO BE DAMAGED RECOMMEND REPLACING WITH NEW. REPAIR PROCESS COMMENTS: 5649 10/12/2021 - NEW CYLINDER GROUP WAS ORDERED AS PER CUSTOMER REQUEST.

Recondition Apron Lift Nov 02, 2021 Service 6,284 Cylinder	**REPAIR SPECIFICATION INCLUDES** -CHECK ROD FOR STRAIGHTNESS AND ROUNDNESS -CHECK THREADS -HONE AS NEEDED TO.003 INCHES -RESEAL HEAD AND PISTON - TORQUE NUT TO PROPER SPECIFICATIONS -TEST FOR LEAKAGE AND OPERATION -PAINT **AVAILABLE AS NEEDED AT ADDITIONAL COST** -SALVAGE WEAR BAND -RECHROME OR POLISH ROD -SALVAGE OR REPLACE CYLINDER ROD, PISTON, HEAD,NUT OR BARREL -BUILD AND BORE ROD EYE OR BARREL EYE -INSTALL NEW MOUNTINGS, BEARINGS AND SEALS -RESEAL QUICK DROP VALVES IF APPLICABLE -REROD - RETUBE -HONE OVERSIZE -CHARGES FOR UNACCEPTABLE CORES CUSTOMER COMPLAINT: RECONDITION APRON LIFT CYLINDER CAUSE OF FAILURE: ROD FAILURE - FRACTURED RESULTANT DAMAGE: RECOMMEND REPLACING WITH NEW OR REMAN ROD. FOUND SEALS TO BE DAMAGED RECOMMEND REPLACING WITH NEW. FOUND DAMAGE AND SCORING IN BARREL AND CYLINDER IS .001 AWAY FROM BEING OUT OF SPEC WILL NOT BE ABLE TO HONE OUT RECOMMEND REPLACING WITH NEW. FOUND SENSOR TO BE BENT AND DAMAGED RECOMMEND REPLACING WITH NEW. FOUND BARREL EYE BEARINGS TO BE DAMAGED RECOMMEND REPLACING WITH NEW. FOUND SENSOR TO BE BENT AND DAMAGED RECOMMEND REPLACING WITH NEW. FOUND BARREL EYE BEARINGS TO BE DAMAGED RECOMMEND REPLACING WITH NEW. FOUND SENSOR TO BE BENT AND DAMAGED RECOMMEND REPLACING WITH NEW. FOUND BARREL EYE BEARINGS TO BE DAMAGED RECOMMEND REPLACING WITH NEW. FOUND PISTON BORE TO HAVE DAMAGE UNABLE TO REPAIR RECOMMEND REPLACING WITH NEW. HEAD WILL MAKE REUSE. RECOMMEND REPLACING ENTIRE CYLINDER DUE TO BEING MORE COST EFFICIENT. REPAIR PROCESS COMMENTS: 5649 10/12/2021 - INSTALLED HARDLINE ON NEW CYLINDER GROUP. INSTALLED NEW HARNESS ON HARDLINE. INSTALLED NEW BEARINGS INTO BARREL MOUNT. UNABLE TO INSTALLED NEW BEARINGS INTO BARREL MOUNT. UNABLE TO INSTALLED NEW BEARINGS INTO BARREL MOUNT. UNABLE TO INSTALL MOUNT ONTO BARREL DUE TO PIN NOT BEING WITH OLD CYLINDER WHEN BROUGHT IN. PUT CYLINDER ON MOUNT
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Nov 02, 2021	Service	6,284	Troubleshoot Apron	CUSTOMER CONCERN TECH ID: 5436 THURSDAY, SEPTEMBER 30, 2021 T/S INOP APRON REPAIR COMMENTS - CALLED CUSTOMER AND TRAVELED TO JOB SITE LOCATED MACHINE AND DOWNLOADED PSR ACTIVE DATA LINK FAULTS PRESENT NO DATA LINK FAULTS PERTAIN TO APRON PERFORMED WALK AROUND, NO FAULTS FOUND STARTED MACHINE AND LET RUN TO OPERATING TEMP VERIFIED CONCERN, APRON WILL NOT LIFT DURING OPERATION OF MACHINE YOU COULD SEE APRON CYLINDER MOVING SLIGHTLY CHECKED THAT APRON WAS NOT BENT OR SEIZED. APRON - APRON CIRCUIT IS LOOSING PRESSURE AND DRIFTING OFF, POSSIBLE RELIEF FAULT SWAPPED PILOT RELIEFS WITH WTC00164 FAULT STILL PRESENT, WILL HAVE TO FURTHER DISASSEMBLY CONTROL VALVE. 5436 10/4 - ARRIVED AT MACHINE FILLED OUT JSA REMOVED LINK FROM APRON AND CONNECTED CRANE TO - USED CRANE LIFT ON CYLINDER ROD, ROD CAME OUT OF CYLINDER REVEALING BROKEN CYLINDER ROD REMOVED CYLINDER FROM MACHINE AND INSPECTED BORE, MULTIPLE AREAS DAMAGED BOTH ON ROD AND PISTON MATERIAL MISSING FROM BOTH PISTON AND ROD, POSSIBLE HYDRAULIC CLEAN OUT NEEDED CYLINDER STAMPED POSSIBLY INDICATING COMPONENT SHOP REBUILD ROOT CAUSE OF FAILURE WILL BE DETERMINED WITH COMPONENT SHOP. CUSTOMER CONCERN TECH ID: 5436 THURSDAY, SEPTEMBER 30, 2021 T/S INOP APRONTECH ID: 5328 - APRON CYLINDER, PINNED CYLINDER AND APRON. CHANGED HYDRAULIC FILTERS AND SCREENS. FILLED HYDRAULIC OIL WITH CUSTOMER'S OIL. STARTED MACHINE, CHECKED FOR LEAKS, NONE FOUND. CHECKED OPERATION OF APRON. REPAIR COMMENTS TECH ID: 5436 THURSDAY, SEPTEMBER 30, 2021 - 5436 9/30- CALLED CUSTOMER AND TRAVELED TO JOB SITE LOCATED MACHINE AND APRON. CHANGED HYDRAULIC FILTERS AND SCREENS. FILLED HYDRAULIC OIL WITH CUSTOMER'S OIL. STARTED MACHINE, CHECKED FOR LEAKS, NONE FOUND. CHECKED OPERATION OF APRON. REPAIR COMMENTS TECH ID: 5436 THURSDAY, SEPTEMBER 30, 2021 - 5436 9/30- CALLED CUSTOMER AND TRAVELED TO JOB SITE LOCATED MACHINE AND DAVILOADED PSR ACTIVE DATA LINK FAULTS PRESENT. NO DATA LINK FAULTS PERTAIN TO APRON PERFORMED WALK AROUND, NO
				OR SEIZED. APRON OK APRON CIRCUIT IS LOOSING PRESSURE AND DRIFTING OFF, POSSIBLE RELIEF FAULT SWAPPED PILOT RELIEFS WITH WTC00164 FAULT STILL

Nov 02, 2021

6,284

Service

Travel To/from Work Area

Nov 02, 2021	Service	6,284	Recondition Apron Lift Cylinder	**REPAIR SPECIFICATION INCLUDES** -CHECK ROD FOR STRAIGHTNESS AND ROUNDNESS -CHECK THREADS -HONE AS NEEDED TO.003 INCHES -RESEAL HEAD AND PISTON - TORQUE NUT TO PROPER SPECIFICATIONS -TEST FOR LEAKAGE AND OPERATION -PAINT **AVAILABLE AS NEEDED AT ADDITIONAL COST** -SALVAGE WEAR BAND -RECHROME OR POLISH ROD -SALVAGE OR REPLACE CYLINDER ROD, PISTON, HEAD,NUT OR BARREL -BUILD AND BORE ROD EYE OR BARREL EYE -INSTALL NEW MOUNTINGS, BEARINGS AND SEALS -RESEAL QUICK DROP VALVES IF APPLICABLE -REROD - RETUBE -HONE OVERSIZE -CHARGES FOR UNACCEPTABLE CORES CUSTOMER COMPLAINT: RECONDITION APRON LIFT CYLINDER CAUSE OF FAILURE: ROD FAILURE - FRACTURED RESULTANT DAMAGE: RECOMMEND REPLACING WITH NEW OR REMAN ROD. FOUND SEALS TO BE DAMAGED RECOMMEND REPLACING WITH NEW. FOUND DAMAGE AND SCORING IN BARREL AND CYLINDER IS .001 AWAY FROM BEING OUT OF SPEC WILL NOT BE ABLE TO HONE OUT RECOMMEND REPLACING WITH NEW. FOUND SENSOR TO BE BENT AND DAMAGED RECOMMEND REPLACING WITH NEW. FOUND BARREL EYE BEARINGS TO BE DAMAGED RECOMMEND REPLACING WITH NEW. FOUND DISTON BORE TO HAVE DAMAGE UNABLE TO REPAIR RECOMMEND REPLACING WITH NEW. FOUND PISTON BORE TO HAVE DAMAGE UNABLE TO REPAIR RECOMMEND REPLACING WITH NEW. FOUND PISTON BORE TO HAVE DAMAGE UNABLE TO REPAIR RECOMMEND REPLACING WITH NEW. HEAD WILL MAKE REUSE. RECOMMEND REPLACING ENTIRE CYLINDER DUE TO BEING MORE COST EFFICIENT. REPAIR PROCESS COMMENTS: 5649 10/12/2021 - INSTALLED HARDLINE ON NEW CYLINDER GROUP, INSTALLED NEW HARNESS ON HARDLINE. INSTALLED NEW BEARINGS INTO BARREL MOUNT. UNABLE TO INSTALL MOUNT ONTO BARREL DUE TO PIN NOT BEING WITH OLD CYLINDER WHEN BROUGHT IN. PUT CYLINDER ON MOUNT ON PALLET. ROD BROKEN
Nov 02, 2021	Service	6,284	Furnish **use 608** Apron Lift Cylinder	RESULTANT DAMAGE: ROD FAILURE ROD END FRACTURED UNABLE TO MAKE REUSE. BARREL HAD SEVERE DAMAGE AND IS WITHIN .001 OF BEING OUT OF SPEC WILL NOT HAVE ENOUGH MATERIAL TO REMOVE DAMAGE AND STILL BE WITHIN SPEC RECOMMEND REPLACING WITH NEW. FOUND SENSOR TO BE BENT AND DAMAGED RECOMMEND REPLACING WITH NEW. FOUND PISTON BORE TO HAVE SEVERE DAMAGE UNABLE TO REPAIR RECOMMEND GETTING NEW PISTON. FOUND BARREL EYE BEARINGS TO BE DAMAGED RECOMMEND REPLACING WITH NEW. FOUND TRUNNION BEARINGS TO BE DAMAGED RECOMMEND REPLACING WITH NEW. REPAIR PROCESS COMMENTS: 5649 10/12/2021 - NEW CYLINDER GROUP WAS ORDERED AS PER CUSTOMER REQUEST.

				CUSTOMER CONCERN TECH ID: 5436 THURSDAY, SEPTEMBER 30, 2021 T/S INOP APRON REPAIR COMMENTS - CALLED CUSTOMER AND TRAVELED TO JOB SITE LOCATED MACHINE AND DOWNLOADED PSR ACTIVE DATA LINK FAULTS PRESENT NO DATA LINK FAULTS PERTAIN TO APRON PERFORMED WALK AROUND, NO FAULTS FOUND STARTED MACHINE AND LET RUN TO OPERATING TEMP VERIFIED CONCERN, APRON WILL NOT LIFT DURING OPERATION OF MACHINE YOU COULD SEE APRON CYLINDER MOVING SLIGHTLY CHECKED THAT APRON WAS NOT BENT OR SEIZED. APRON - APRON CIRCUIT IS LOOSING PRESSURE AND DRIFTING OFF, POSSIBLE RELIEF FAULT SWAPPED PILOT RELIEFS WITH WTC00164 FAULT STILL PRESENT, WILL HAVE TO FURTHER DISASSEMBLY CONTROL VALVE. 5436 10/4 - ARRIVED AT MACHINE FILLED OUT JSA REMOVED LINK FROM APRON AND CONNECTED CRANE TO - USED CRANE LIFT ON CYLINDER ROD, ROD CAME OUT OF CYLINDER REVEALING BROKEN CYLINDER ROD REMOVED CYLINDER FROM MACHINE AND INSPECTED BORE, MULTIPLE AREAS DAMAGED BOTH ON ROD AND PISTON MATERIAL MISSING FROM BOTH PISTON AND ROD, POSSIBLE HYDRAULIC CLEAN OUT NEEDED CYLINDER STAMPED POSSIBLY INDICATING COMPONENT SHOP REBUILD ROOT CAUSE OF FAILURE WILL BE DETERMINED WITH COMPONENT SHOP. 5436 10/5 - DROPPED OFF CYLINDER TO COMPONENT SHOP. CUSTOMER CONCERN TECH ID: 5436 THURSDAY, SEPTEMBER 30, 2021
Oct 28, 2021	Service	6,284	Troubleshoot Apron	T/S INOP APRONTECH ID: 5328 APRON CYLINDER, PINNED CYLINDER AND APRON. CHANGED HYDRAULIC FILTERS AND SCREENS. FILLED HYDRAULIC OIL WITH CUSTOMER'S OIL.
				STARTED MACHINE, CHECKED FOR LEAKS, NONE FOUND. CHECKED OPERATION OF APRON. REPAIR COMMENTS TECH
				ID: 5436 THURSDAY, SEPTEMBER 30, 2021 - 5436 9/30- CALLED CUSTOMER AND TRAVELED TO JOB SITE LOCATED
				MACHINE AND DOWNLOADED PSR ACTIVE DATA LINK
				FAULTS PRESENT NO DATA LINK FAULTS PERTAIN TO APRON PERFORMED WALK AROUND, NO FAULTS FOUND
				STARTED MACHINE AND LET RUN TO OPERATING TEMP
				VERIFIED CONCERN, APRON WILL NOT LIFT DURING
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				OR SEIZED. APRON OK APRON CIRCUIT IS LOOSING PRESSURE AND DRIFTING OFF, POSSIBLE RELIEF FAULT
				SWAPPED PILOT RELIEFS WITH WTC00164 FAULT STILL
				PRESENT, WILL HAVE TO FURTHER ARRIVED AT WAGNER AND SEARCHED FOR PARTS THAT WERE OVERNIGHTED FROM
				WAC 5436 10/4- ARRIVED AT MACHINE FILLED OUT JSA
				REMOVED LINK FROM APRON AND CONNECTED CRANE TO CYLINDER ROD USED CRANE LIFT ON CYLINDER ROD, ROD
				CAME OUT OF CYLINDER CYLINDER FROM MACHINE AND
				INSPECTED BORE, MULTIPLE AREAS DAMAGED BOTH ON ROD AND PISTON MATERIAL HYDRAULIC CLEAN OUT NEEDED
				CYLINDER STAMPED POSSIBLY INDICATING COMPONENT
				SHOP REBUILD ROOT CAUSE OF FAILURE WILL BE
				DETERMINED WITH COMPONENT

Oct 28, 2021	Service	6,284	Recondition Apron Lift Cylinder	**REPAIR SPECIFICATION INCLUDES** -CHECK ROD FOR STRAIGHTNESS AND ROUNDNESS -CHECK THREADS -HONE AS NEEDED TO.003 INCHES -RESEAL HEAD AND PISTON - TORQUE NUT TO PROPER SPECIFICATIONS -TEST FOR LEAKAGE AND OPERATION -PAINT **AVAILABLE AS NEEDED AT ADDITIONAL COST** -SALVAGE WEAR BAND -RECHROME OR POLISH ROD -SALVAGE OR REPLACE CYLINDER ROD, PISTON, HEAD,NUT OR BARREL -BUILD AND BORE ROD EYE OR BARREL EYE -INSTALL NEW MOUNTINGS, BEARINGS AND SEALS -RESEAL QUICK DROP VALVES IF APPLICABLE -REROD - RETUBE -HONE OVERSIZE -CHARGES FOR UNACCEPTABLE CORES CUSTOMER COMPLAINT: RECONDITION APRON LIFT CYLINDER CAUSE OF FAILURE: ROD FAILURE - FRACTURED RESULTANT DAMAGE: RECOMMEND REPLACING WITH NEW OR REMAN ROD. FOUND SEALS TO BE DAMAGED RECOMMEND REPLACING WITH NEW. FOUND DAMAGE AND SCORING IN BARREL AND CYLINDER IS .001 AWAY FROM BEING OUT OF SPEC WILL NOT BE ABLE TO HONE OUT RECOMMEND REPLACING WITH NEW. FOUND SENSOR TO BE BENT AND DAMAGED RECOMMEND REPLACING WITH NEW. FOUND BARREL EYE BEARINGS TO BE DAMAGED RECOMMEND REPLACING WITH NEW. FOUND PISTON BORE TO HAVE DAMAGE UNABLE TO REPAIR RECOMMEND REPLACING WITH NEW. FOUND PISTON BORE TO HAVE DAMAGE UNABLE TO REPAIR RECOMMEND REPLACING WITH NEW. HEAD WILL MAKE REUSE. RECOMMEND REPLACING ENTIRE CYLINDER DUE TO BEING MORE COST EFFICIENT. REPAIR PROCESS COMMENTS: 5649 10/12/2021 - INSTALLED HARNESS ON HARDLINE. INSTALLED NEW BEARINGS INTO BARREL MOUNT. UNABLE TO INSTALL MOUNT ONTO BARREL DUE TO PIN NOT BEING WITH OLD CYLINDER WHEN BROUGHT IN. PUT CYLINDER ON MOUNT ON PALLET. ROD BROKEN
Oct 28, 2021	Service	6,284	Furnish **use 608** Apron Lift Cylinder	RESULTANT DAMAGE: ROD FAILURE ROD END FRACTURED UNABLE TO MAKE REUSE. BARREL HAD SEVERE DAMAGE AND IS WITHIN .001 OF BEING OUT OF SPEC WILL NOT HAVE ENOUGH MATERIAL TO REMOVE DAMAGE AND STILL BE WITHIN SPEC RECOMMEND REPLACING WITH NEW. FOUND SENSOR TO BE BENT AND DAMAGED RECOMMEND REPLACING WITH NEW. FOUND PISTON BORE TO HAVE SEVERE DAMAGE UNABLE TO REPAIR RECOMMEND GETTING NEW PISTON. FOUND BARREL EYE BEARINGS TO BE DAMAGED RECOMMEND REPLACING WITH NEW. FOUND TRUNNION BEARINGS TO BE DAMAGED RECOMMEND REPLACING WITH NEW. REPAIR PROCESS COMMENTS: 5649 10/12/2021 - NEW CYLINDER GROUP WAS ORDERED AS PER CUSTOMER REQUEST.
Oct 28, 2021	Service	6,284	Travel To/from Work Area	

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Oct 28, 2021	Service	6,284	Troubleshoot Apron	T/S INOP APRONTECH ID: 5328 APRON CYLINDER, PINNED CYLINDER AND APRON. CHANGED HYDRAULIC FILTERS AND SCREENS. FILLED HYDRAULIC OIL WITH CUSTOMER'S OIL.
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				ID: 5436 THURSDAY, SEPTEMBER 30, 2021 - 5436 9/30- CALLED CUSTOMER AND TRAVELED TO JOB SITE LOCATED
				MACHINE AND DOWNLOADED PSR ACTIVE DATA LINK FAULTS PRESENT NO DATA LINK FAULTS PERTAIN TO
				APRON PERFORMED WALK AROUND, NO FAULTS FOUND STARTED MACHINE AND LET RUN TO OPERATING TEMP
				VERIFIED CONCERN, APRON WILL NOT LIFT DURING
				OPERATION OF MACHINE YOU COULD SEE APRON CYLINDER MOVING SLIGHTLY CHECKED THAT APRON WAS NOT BENT
				OR SEIZED. APRON OK APRON CIRCUIT IS LOOSING
				PRESSURE AND DRIFTING OFF, POSSIBLE RELIEF FAULT SWAPPED PILOT RELIEFS WITH WTC00164 FAULT STILL
				PRESENT, WILL HAVE TO FURTHER ARRIVED AT WAGNER AND SEARCHED FOR PARTS THAT WERE OVERNIGHTED FROM
				WAC 5436 10/4- ARRIVED AT MACHINE FILLED OUT JSA
				REMOVED LINK FROM APRON AND CONNECTED CRANE TO CYLINDER ROD USED CRANE LIFT ON CYLINDER ROD, ROD
				CAME OUT OF CYLINDER CYLINDER FROM MACHINE AND
				INCRECTED DORE MULTIPLE AREAC DAMAGED ROTU ON DOR
				INSPECTED BORE, MULTIPLE AREAS DAMAGED BOTH ON ROD AND PISTON MATERIAL HYDRAULIC CLEAN OUT NEEDED

				SHOP.5436 10/5- DROPPED OFF CYLINDER TO COMPONENT SHOP. 5436 10/12 TRAVELED TO JOB SITE REMOVED HYD FILTERS AND INSPECTED FOR METAL SLIGHT TRACES OF METAL PRESENT DRAINED HYD TANK AND INSPECTED TANK FOR METAL, SMALL TRACES OF METAL PRESENT LOOKED UP AND ORDERED ALL STRAINERS, FILTERS AND OBTAINED FAILED PARTS FROM COMPONENT SHOP AND SPOKE WITH ROSS AND JASON HYD CLEAN OUT NEW CYLINDER CUSTOMER ALSO TO APPROVE INSTALL WITHOUT HYD CLEAN OUT ANOTHER TECHNICIAN TO COMPLETE INSTALL DUE TO 5436 GOING ON VACATION. TECH ID: 5328 TUESDAY, OCTOBER 19, 2021 6:09 PM - LOADED CYLINDER IN TRUCK AND UNLOADED IT AT JOB SITE. ATTEMPTED TO INSTALL CYLINDER AND WAS NOT ABLE TO GET IT UP INTO THE MACHINE BY THE TIME IT STARTED RAINING. CUSTOMER CONCERN TECH ID: 5328 WEDNESDAY, OCTOBER 20, 2021 5:00 PM - INSTALLED APRON CYLINDER, PINNED CYLINDER AND APRON. CHANGED HYDRAULIC FILTERS AND Apron n/w SCREENS. FILLED HYDRAULIC OIL WITH CUSTOMER'S OIL. STARTED MACHINE, CHECKED FOR LEAKS, NONE FOUND. CHECKED OPERATION OF APRON. APRON N/W
Oct 28, 2021	Service	6,284	Furnish **use 608** Apron Lift Cylinder	RESULTANT DAMAGE: ROD FAILURE ROD END FRACTURED UNABLE TO MAKE REUSE. BARREL HAD SEVERE DAMAGE AND IS WITHIN .001 OF BEING OUT OF SPEC WILL NOT HAVE ENOUGH MATERIAL TO REMOVE DAMAGE AND STILL BE WITHIN SPEC RECOMMEND REPLACING WITH NEW. FOUND SENSOR TO BE BENT AND DAMAGED RECOMMEND REPLACING WITH NEW. FOUND PISTON BORE TO HAVE SEVERE DAMAGE UNABLE TO REPAIR RECOMMEND GETTING NEW PISTON. FOUND BARREL EYE BEARINGS TO BE DAMAGED RECOMMEND REPLACING WITH NEW. FOUND TRUNNION BEARINGS TO BE DAMAGED RECOMMEND REPLACING WITH NEW. REPAIR PROCESS COMMENTS: 5649 10/12/2021 - NEW CYLINDER GROUP WAS ORDERED AS PER CUSTOMER REQUEST.
Oct 28, 2021	Service	6,284	Travel To/from Work Area	

Recondition Apron Lift Oct 28, 2021 Service 6,284 Cylinder	**REPAIR SPECIFICATION INCLUDES** -CHECK ROD FOR STRAIGHTNESS AND ROUNDNESS -CHECK THREADS -HONE AS NEEDED TO.003 INCHES -RESEAL HEAD AND PISTON - TORQUE NUT TO PROPER SPECIFICATIONS -TEST FOR LEAKAGE AND OPERATION -PAINT **AVAILABLE AS NEEDED AT ADDITIONAL COST** -SALVAGE WEAR BAND -RECHROME OR POLISH ROD -SALVAGE OR REPLACE CYLINDER ROD, PISTON, HEAD,NUT OR BARREL -BUILD AND BORE ROD EYE OR BARREL EYE -INSTALL NEW MOUNTINGS, BEARINGS AND SEALS -RESEAL QUICK DROP VALVES IF APPLICABLE -REROD - RETUBE -HONE OVERSIZE -CHARGES FOR UNACCEPTABLE CORES CUSTOMER COMPLAINT: RECONDITION APRON LIFT CYLINDER CAUSE OF FAILURE: ROD FAILURE - FRACTURED RESULTANT DAMAGE: RECOMMEND REPLACING WITH NEW OR REMAN ROD. FOUND SEALS TO BE DAMAGED RECOMMEND REPLACING WITH NEW. FOUND DAMAGE AND SCORING IN BARREL AND CYLINDER IS .001 AWAY FROM BEING OUT OF SPEC WILL NOT BE ABLE TO HONE OUT RECOMMEND REPLACING WITH NEW. FOUND SENSOR TO BE BENT AND DAMAGED RECOMMEND REPLACING WITH NEW. FOUND BARREL EYE BEARINGS TO BE DAMAGED RECOMMEND REPLACING WITH NEW. FOUND SENSOR TO BE BENT AND DAMAGED RECOMMEND REPLACING WITH NEW. FOUND BARREL EYE BEARINGS TO BE DAMAGED RECOMMEND REPLACING WITH NEW. FOUND PISTON BORE TO HAVE DAMAGE UNABLE TO REPAIR RECOMMEND REPLACING WITH NEW. FOUND PISTON BORE TO HAVE DAMAGE UNABLE TO REPAIR RECOMMEND REPLACING WITH NEW. HEAD WILL MAKE REUSE. RECOMMEND REPLACING ENTIRE CYLINDER DUE TO BEING MORE COST EFFICIENT. REPAIR PROCESS COMMENTS: 5649 10/12/2021 - INSTALLED HARDLINE ON NEW CYLINDER GROUP. INSTALLED NEW HARNESS ON HARDLINE. INSTALLED NEW BEARINGS INTO BARREL MOUNT. UNABLE TO INSTALL MOUNT ONTO BARREL DUE TO PIN NOT BEING WITH OLD CYLINDER WHEN BROUGHT IN. PUT CYLINDER ON MOUNT
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Oct 28, 2021	Service	6,284	Recondition Apron Lift Cylinder	**REPAIR SPECIFICATION INCLUDES** -CHECK ROD FOR STRAIGHTNESS AND ROUNDNESS -CHECK THREADS -HONE AS NEEDED TO.003 INCHES -RESEAL HEAD AND PISTON - TORQUE NUT TO PROPER SPECIFICATIONS -TEST FOR LEAKAGE AND OPERATION -PAINT **AVAILABLE AS NEEDED AT ADDITIONAL COST** -SALVAGE WEAR BAND -RECHROME OR POLISH ROD -SALVAGE OR REPLACE CYLINDER ROD, PISTON, HEAD,NUT OR BARREL -BUILD AND BORE ROD EYE OR BARREL EYE -INSTALL NEW MOUNTINGS, BEARINGS AND SEALS -RESEAL QUICK DROP VALVES IF APPLICABLE -REROD - RETUBE -HONE OVERSIZE -CHARGES FOR UNACCEPTABLE CORES CUSTOMER COMPLAINT: RECONDITION APRON LIFT CYLINDER CAUSE OF FAILURE: ROD FAILURE - FRACTURED RESULTANT DAMAGE: RECOMMEND REPLACING WITH NEW OR REMAN ROD. FOUND SEALS TO BE DAMAGED RECOMMEND REPLACING WITH NEW. FOUND DAMAGE AND SCORING IN BARREL AND CYLINDER IS .001 AWAY FROM BEING OUT OF SPEC WILL NOT BE ABLE TO HONE OUT RECOMMEND REPLACING WITH NEW. FOUND SENSOR TO BE BENT AND DAMAGED RECOMMEND REPLACING WITH NEW. FOUND BARREL EYE BEARINGS TO BE DAMAGED RECOMMEND REPLACING WITH NEW. FOUND PISTON BORE TO HAVE DAMAGE UNABLE TO REPAIR RECOMMEND REPLACING WITH NEW. FOUND PISTON BORE TO HAVE DAMAGE UNABLE TO REPAIR RECOMMEND REPLACING WITH NEW. HEAD WILL MAKE REUSE. RECOMMEND REPLACING ENTIRE CYLINDER DUE TO BEING MORE COST EFFICIENT. REPAIR PROCESS COMMENTS: 5649 10/12/2021 - INSTALLED HARNESS ON HARDLINE. INSTALLED NEW BEARINGS INTO BARREL MOUNT. UNABLE TO INSTALL MOUNT ONTO BARREL DUE TO PIN NOT BEING WITH OLD CYLINDER WHEN BROUGHT IN. PUT CYLINDER ON MOUNT ON PALLET. ROD BROKEN
Oct 28, 2021	Service	6,284	Travel To/from Work Area	
Oct 28, 2021	Service	6,284	Furnish **use 608** Apron Lift Cylinder	RESULTANT DAMAGE: ROD FAILURE ROD END FRACTURED UNABLE TO MAKE REUSE. BARREL HAD SEVERE DAMAGE AND IS WITHIN .001 OF BEING OUT OF SPEC WILL NOT HAVE ENOUGH MATERIAL TO REMOVE DAMAGE AND STILL BE WITHIN SPEC RECOMMEND REPLACING WITH NEW. FOUND SENSOR TO BE BENT AND DAMAGED RECOMMEND REPLACING WITH NEW. FOUND PISTON BORE TO HAVE SEVERE DAMAGE UNABLE TO REPAIR RECOMMEND GETTING NEW PISTON. FOUND BARREL EYE BEARINGS TO BE DAMAGED RECOMMEND REPLACING WITH NEW. FOUND TRUNNION BEARINGS TO BE DAMAGED RECOMMEND REPLACING WITH NEW. REPAIR PROCESS COMMENTS: 5649 10/12/2021 - NEW CYLINDER GROUP WAS ORDERED AS PER CUSTOMER REQUEST.

WAC 5436 10/4- ARRIVED AT MACHINE FILLED OUT JSA REMOVED LINK FROM APRON AND CONNECTED CRANE TO CYLINDER ROD USED CRANE LIFT ON CYLINDER ROD, ROD CAME OUT OF CYLINDER CYLINDER FROM MACHINE AND INSPECTED BORE, MULTIPLE AREAS DAMAGED BOTH ON RO	Oct 28, 2021	Service	6,284	Troubleshoot Apron	REMOVED LINK FROM APRON AND CONNECTED CRANE TO CYLINDER ROD USED CRANE LIFT ON CYLINDER ROD, ROD CAME OUT OF CYLINDER CYLINDER FROM MACHINE AND INSPECTED BORE, MULTIPLE AREAS DAMAGED BOTH ON ROD AND PISTON MATERIAL HYDRAULIC CLEAN OUT NEEDED CYLINDER STAMPED POSSIBLY INDICATING COMPONENT
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				CUSTOMER CONCERN TECH ID: 5436 THURSDAY, SEPTEMBER 30, 2021 T/S INOP APRON REPAIR COMMENTS - CALLED CUSTOMER AND TRAVELED TO JOB SITE LOCATED MACHINE AND DOWNLOADED PSR ACTIVE DATA LINK FAULTS PRESENT NO DATA LINK FAULTS PERTAIN TO APRON PERFORMED WALK AROUND, NO FAULTS FOUND STARTED MACHINE AND LET RUN TO OPERATING TEMP VERIFIED CONCERN, APRON WILL NOT LIFT DURING OPERATION OF MACHINE YOU COULD SEE APRON CYLINDER MOVING SLIGHTLY CHECKED THAT APRON WAS NOT BENT OR SEIZED. APRON - APRON CIRCUIT IS LOOSING PRESSURE AND DRIFTING OFF, POSSIBLE RELIEF FAULT SWAPPED PILOT RELIEFS WITH WTC00164 FAULT STILL PRESENT, WILL HAVE TO FURTHER DISASSEMBLY CONTROL VALVE. 5436 10/4 - ARRIVED AT MACHINE FILLED OUT JSA REMOVED LINK FROM APRON AND CONNECTED CRANE TO - USED CRANE LIFT ON CYLINDER ROD, ROD CAME OUT OF CYLINDER REVEALING BROKEN CYLINDER ROD REMOVED CYLINDER FROM MACHINE AND INSPECTED BORE, MULTIPLE AREAS DAMAGED BOTH ON ROD AND PISTON MATERIAL MISSING FROM BOTH PISTON AND ROD, POSSIBLE HYDRAULIC CLEAN OUT NEEDED CYLINDER STAMPED POSSIBLY INDICATING COMPONENT SHOP REBUILD ROOT CAUSE OF FAILURE WILL BE DETERMINED WITH COMPONENT SHOP. 5436 10/5 - DROPPED OFF CYLINDER TO COMPONENT SHOP. CUSTOMER CONCERN TECH ID: 5436 THURSDAY, SEPTEMBER 30, 2021
Oct 28, 2021	Service	6,284	Troubleshoot Apron	T/S INOP APRONTECH ID: 5328 APRON CYLINDER, PINNED CYLINDER AND APRON. CHANGED HYDRAULIC FILTERS AND SCREENS. FILLED HYDRAULIC OIL WITH CUSTOMER'S OIL.
				STARTED MACHINE, CHECKED FOR LEAKS, NONE FOUND. CHECKED OPERATION OF APRON. REPAIR COMMENTS TECH
				ID: 5436 THURSDAY, SEPTEMBER 30, 2021 - 5436 9/30- CALLED CUSTOMER AND TRAVELED TO JOB SITE LOCATED
				MACHINE AND DOWNLOADED PSR ACTIVE DATA LINK
				FAULTS PRESENT NO DATA LINK FAULTS PERTAIN TO APRON PERFORMED WALK AROUND, NO FAULTS FOUND
				STARTED MACHINE AND LET RUN TO OPERATING TEMP
				VERIFIED CONCERN, APRON WILL NOT LIFT DURING
				OPERATION OF MACHINE YOU COULD SEE APRON CYLINDER MOVING SLIGHTLY CHECKED THAT APRON WAS NOT BENT
				OR SEIZED. APRON OK APRON CIRCUIT IS LOOSING PRESSURE AND DRIFTING OFF, POSSIBLE RELIEF FAULT
				SWAPPED PILOT RELIEFS WITH WTC00164 FAULT STILL
				PRESENT, WILL HAVE TO FURTHER ARRIVED AT WAGNER AND SEARCHED FOR PARTS THAT WERE OVERNIGHTED FROM
				WAC 5436 10/4- ARRIVED AT MACHINE FILLED OUT JSA
				REMOVED LINK FROM APRON AND CONNECTED CRANE TO CYLINDER ROD USED CRANE LIFT ON CYLINDER ROD, ROD
				CAME OUT OF CYLINDER CYLINDER FROM MACHINE AND
				INSPECTED BORE, MULTIPLE AREAS DAMAGED BOTH ON ROD AND PISTON MATERIAL HYDRAULIC CLEAN OUT NEEDED
				CYLINDER STAMPED POSSIBLY INDICATING COMPONENT
				SHOP REBUILD ROOT CAUSE OF FAILURE WILL BE
				DETERMINED WITH COMPONENT

Oct 28, 2021	Service	6,284	Recondition Apron Lift Cylinder	**REPAIR SPECIFICATION INCLUDES** -CHECK ROD FOR STRAIGHTNESS AND ROUNDNESS -CHECK THREADS -HONE AS NEEDED TO.003 INCHES -RESEAL HEAD AND PISTON - TORQUE NUT TO PROPER SPECIFICATIONS -TEST FOR LEAKAGE AND OPERATION -PAINT **AVAILABLE AS NEEDED AT ADDITIONAL COST** -SALVAGE WEAR BAND -RECHROME OR POLISH ROD -SALVAGE OR REPLACE CYLINDER ROD, PISTON, HEAD,NUT OR BARREL -BUILD AND BORE ROD EYE OR BARREL EYE -INSTALL NEW MOUNTINGS, BEARINGS AND SEALS -RESEAL QUICK DROP VALVES IF APPLICABLE -REROD - RETUBE -HONE OVERSIZE -CHARGES FOR UNACCEPTABLE CORES CUSTOMER COMPLAINT: RECONDITION APRON LIFT CYLINDER CAUSE OF FAILURE: ROD FAILURE - FRACTURED RESULTANT DAMAGE: RECOMMEND REPLACING WITH NEW OR REMAN ROD. FOUND SEALS TO BE DAMAGED RECOMMEND REPLACING WITH NEW. FOUND DAMAGE AND SCORING IN BARREL AND CYLINDER IS .001 AWAY FROM BEING OUT OF SPEC WILL NOT BE ABLE TO HONE OUT RECOMMEND REPLACING WITH NEW. FOUND SENSOR TO BE BENT AND DAMAGED RECOMMEND REPLACING WITH NEW. FOUND BARREL EYE BEARINGS TO BE DAMAGED RECOMMEND REPLACING WITH NEW. FOUND PISTON BORE TO HAVE DAMAGE UNABLE TO REPAIR RECOMMEND REPLACING WITH NEW. FOUND PISTON BORE TO HAVE DAMAGE UNABLE TO REPAIR RECOMMEND REPLACING WITH NEW. HEAD WILL MAKE REUSE. RECOMMEND REPLACING ENTIRE CYLINDER DUE TO BEING MORE COST EFFICIENT. REPAIR PROCESS COMMENTS: 5649 10/12/2021 - INSTALLED HARNESS ON HARDLINE. INSTALLED NEW BEARINGS INTO BARREL MOUNT. UNABLE TO INSTALL MOUNT ONTO BARREL DUE TO PIN NOT BEING WITH OLD CYLINDER WHEN BROUGHT IN. PUT CYLINDER ON MOUNT ON PALLET. ROD BROKEN
Oct 28, 2021	Service	6,284	Furnish **use 608** Apron Lift Cylinder	RESULTANT DAMAGE: ROD FAILURE ROD END FRACTURED UNABLE TO MAKE REUSE. BARREL HAD SEVERE DAMAGE AND IS WITHIN .001 OF BEING OUT OF SPEC WILL NOT HAVE ENOUGH MATERIAL TO REMOVE DAMAGE AND STILL BE WITHIN SPEC RECOMMEND REPLACING WITH NEW. FOUND SENSOR TO BE BENT AND DAMAGED RECOMMEND REPLACING WITH NEW. FOUND PISTON BORE TO HAVE SEVERE DAMAGE UNABLE TO REPAIR RECOMMEND GETTING NEW PISTON. FOUND BARREL EYE BEARINGS TO BE DAMAGED RECOMMEND REPLACING WITH NEW. FOUND TRUNNION BEARINGS TO BE DAMAGED RECOMMEND REPLACING WITH NEW. REPAIR PROCESS COMMENTS: 5649 10/12/2021 - NEW CYLINDER GROUP WAS ORDERED AS PER CUSTOMER REQUEST.
Oct 28, 2021	Service	6,284	Travel To/from Work Area	

				CUSTOMER CONCERN TECH ID: 5436 THURSDAY, SEPTEMBER 30, 2021 T/S INOP APRON REPAIR COMMENTS - CALLED CUSTOMER AND TRAVELED TO JOB SITE LOCATED MACHINE AND DOWNLOADED PSR ACTIVE DATA LINK FAULTS PRESENT NO DATA LINK FAULTS PERTAIN TO APRON PERFORMED WALK AROUND, NO FAULTS FOUND STARTED MACHINE AND LET RUN TO OPERATING TEMP VERIFIED CONCERN, APRON WILL NOT LIFT DURING OPERATION OF MACHINE YOU COULD SEE APRON CYLINDER MOVING SLIGHTLY CHECKED THAT APRON WAS NOT BENT OR SEIZED. APRON - APRON CIRCUIT IS LOOSING PRESSURE AND DRIFTING OFF, POSSIBLE RELIEF FAULT SWAPPED PILOT RELIEFS WITH WTC00164 FAULT STILL PRESENT, WILL HAVE TO FURTHER DISASSEMBLY CONTROL VALVE. 5436 10/4 - ARRIVED AT MACHINE FILLED OUT JSA REMOVED LINK FROM APRON AND CONNECTED CRANE TO - USED CRANE LIFT ON CYLINDER ROD, ROD CAME OUT OF CYLINDER REVEALING BROKEN CYLINDER ROD REMOVED CYLINDER FROM MACHINE AND INSPECTED BORE, MULTIPLE AREAS DAMAGED BOTH ON ROD AND PISTON MATERIAL MISSING FROM BOTH PISTON AND ROD, POSSIBLE HYDRAULIC CLEAN OUT NEEDED CYLINDER STAMPED POSSIBLY INDICATING COMPONENT SHOP REBUILD ROOT CAUSE OF FAILURE WILL BE DETERMINED WITH COMPONENT SHOP. 5436 10/5 - DROPPED OFF CYLINDER TO COMPONENT SHOP. CUSTOMER CONCERN TECH ID: 5436 THURSDAY, SEPTEMBER 30, 2021
Oct 26, 2021	Service	6,284	Troubleshoot Apron	T/S INOP APRONTECH ID: 5328 APRON CYLINDER, PINNED CYLINDER AND APRON. CHANGED HYDRAULIC FILTERS AND SCREENS. FILLED HYDRAULIC OIL WITH CUSTOMER'S OIL.
				STARTED MACHINE, CHECKED FOR LEAKS, NONE FOUND. CHECKED OPERATION OF APRON. REPAIR COMMENTS TECH
				ID: 5436 THURSDAY, SEPTEMBER 30, 2021 - 5436 9/30- CALLED CUSTOMER AND TRAVELED TO JOB SITE LOCATED
				MACHINE AND DOWNLOADED PSR ACTIVE DATA LINK FAULTS PRESENT NO DATA LINK FAULTS PERTAIN TO
				APRON PERFORMED WALK AROUND, NO FAULTS FOUND
				STARTED MACHINE AND LET RUN TO OPERATING TEMP VERIFIED CONCERN, APRON WILL NOT LIFT DURING
				OPERATION OF MACHINE YOU COULD SEE APRON CYLINDER
				MOVING SLIGHTLY CHECKED THAT APRON WAS NOT BENT OR SEIZED. APRON OK APRON CIRCUIT IS LOOSING
				PRESSURE AND DRIFTING OFF, POSSIBLE RELIEF FAULT
				SWAPPED PILOT RELIEFS WITH WTC00164 FAULT STILL
				PRESENT, WILL HAVE TO FURTHER ARRIVED AT WAGNER AND SEARCHED FOR PARTS THAT WERE OVERNIGHTED FROM
				WAC 5436 10/4- ARRIVED AT MACHINE FILLED OUT JSA
				REMOVED LINK FROM APRON AND CONNECTED CRANE TO
				-
				REMOVED LINK FROM APRON AND CONNECTED CRANE TO CYLINDER ROD USED CRANE LIFT ON CYLINDER ROD, ROD CAME OUT OF CYLINDER CYLINDER FROM MACHINE AND INSPECTED BORE, MULTIPLE AREAS DAMAGED BOTH ON ROD
				REMOVED LINK FROM APRON AND CONNECTED CRANE TO CYLINDER ROD USED CRANE LIFT ON CYLINDER ROD, ROD CAME OUT OF CYLINDER CYLINDER FROM MACHINE AND
				REMOVED LINK FROM APRON AND CONNECTED CRANE TO CYLINDER ROD USED CRANE LIFT ON CYLINDER ROD, ROD CAME OUT OF CYLINDER CYLINDER FROM MACHINE AND INSPECTED BORE, MULTIPLE AREAS DAMAGED BOTH ON ROD AND PISTON MATERIAL HYDRAULIC CLEAN OUT NEEDED

Oct 26, 2021	Service	6,284	Recondition Apron Lift Cylinder	**REPAIR SPECIFICATION INCLUDES** -CHECK ROD FOR STRAIGHTNESS AND ROUNDNESS -CHECK THREADS -HONE AS NEEDED TO.003 INCHES -RESEAL HEAD AND PISTON - TORQUE NUT TO PROPER SPECIFICATIONS -TEST FOR LEAKAGE AND OPERATION -PAINT **AVAILABLE AS NEEDED AT ADDITIONAL COST** -SALVAGE WEAR BAND -RECHROME OR POLISH ROD -SALVAGE OR REPLACE CYLINDER ROD, PISTON, HEAD,NUT OR BARREL -BUILD AND BORE ROD EYE OR BARREL EYE -INSTALL NEW MOUNTINGS, BEARINGS AND SEALS -RESEAL QUICK DROP VALVES IF APPLICABLE -REROD - RETUBE -HONE OVERSIZE -CHARGES FOR UNACCEPTABLE CORES CUSTOMER COMPLAINT: RECONDITION APRON LIFT CYLINDER CAUSE OF FAILURE: ROD FAILURE - FRACTURED RESULTANT DAMAGE: RECOMMEND REPLACING WITH NEW OR REMAN ROD. FOUND SEALS TO BE DAMAGED RECOMMEND REPLACING WITH NEW. FOUND DAMAGE AND SCORING IN BARREL AND CYLINDER IS .001 AWAY FROM BEING OUT OF SPEC WILL NOT BE ABLE TO HONE OUT RECOMMEND REPLACING WITH NEW. FOUND SENSOR TO BE BENT AND DAMAGED RECOMMEND REPLACING WITH NEW. FOUND BARREL EYE BEARINGS TO BE DAMAGED RECOMMEND REPLACING WITH NEW. FOUND PISTON BORE TO HAVE DAMAGE UNABLE TO REPAIR RECOMMEND REPLACING WITH NEW. FOUND PISTON BORE TO HAVE DAMAGE UNABLE TO REPAIR RECOMMEND REPLACING WITH NEW. HEAD WILL MAKE REUSE. RECOMMEND REPLACING ENTIRE CYLINDER DUE TO BEING MORE COST EFFICIENT. REPAIR PROCESS COMMENTS: 5649 10/12/2021 - INSTALLED HARNESS ON HARDLINE. INSTALLED NEW BEARINGS INTO BARREL MOUNT. UNABLE TO INSTALL MOUNT ONTO BARREL DUE TO PIN NOT BEING WITH OLD CYLINDER WHEN BROUGHT IN. PUT CYLINDER ON MOUNT ON PALLET. ROD BROKEN
Oct 26, 2021	Service	6,284	Furnish **use 608** Apron Lift Cylinder	RESULTANT DAMAGE: ROD FAILURE ROD END FRACTURED UNABLE TO MAKE REUSE. BARREL HAD SEVERE DAMAGE AND IS WITHIN .001 OF BEING OUT OF SPEC WILL NOT HAVE ENOUGH MATERIAL TO REMOVE DAMAGE AND STILL BE WITHIN SPEC RECOMMEND REPLACING WITH NEW. FOUND SENSOR TO BE BENT AND DAMAGED RECOMMEND REPLACING WITH NEW. FOUND PISTON BORE TO HAVE SEVERE DAMAGE UNABLE TO REPAIR RECOMMEND GETTING NEW PISTON. FOUND BARREL EYE BEARINGS TO BE DAMAGED RECOMMEND REPLACING WITH NEW. FOUND TRUNNION BEARINGS TO BE DAMAGED RECOMMEND REPLACING WITH NEW. REPAIR PROCESS COMMENTS: 5649 10/12/2021 - NEW CYLINDER GROUP WAS ORDERED AS PER CUSTOMER REQUEST.
Oct 26, 2021	Service	6,284	Travel To/from Work Area	
Oct 26, 2021	Service	6,284	Travel To/from Work Area	

Oct 26, 2021	Service	6,284	Troubleshoot Apron	CUSTOMER CONCERN TECH ID: 5436 - THURSDAY, SEPTEMBER 30, 2021 T/S INOP APRON REPAIR COMMENTS - CALLED CUSTOMER AND TRAVELED TO JOB SITE LOCATED MACHINE AND DOWNLOADED PSR ACTIVE DATA LINK FAULTS PRESENT NO DATA LINK FAULTS PERTAIN TO APRON PERFORMED WALK AROUND, NO FAULTS FOUND STARTED MACHINE AND LET RUN TO OPERATING TEMP VERIFIED CONCERN, APRON WILL NOT LIFT DURING OPERATION OF MACHINE YOU COULD SEE APRON CYLINDER MOVING SLIGHTLY CHECKED THAT APRON WAS NOT BENT OR SEIZED. APRON - APRON CIRCUIT IS LOOSING PRESSURE AND DRIFTING OFF, POSSIBLE RELIEF FAULT SWAPPED PILOT RELIEFS WITH WTC00164 FAULT STILL PRESENT, WILL HAVE TO FURTHER DISASSEMBLY CONTROL VALVE. 5436 10/4 - ARRIVED AT MACHINE FILLED OUT JSA REMOVED LINK FROM APRON AND CONNECTED CRANE TO - USED CRANE LIFT ON CYLINDER ROD, ROD CAME OUT OF CYLINDER REVEALING BROKEN CYLINDER ROD REMOVED LINK FROM APRON AND CONNECTED BORE, MULTIPLE AREAS DAMAGED BOTH ON ROD AND PISTON MATERIAL MISSING FROM MACHINE AND INSPECTED BORE, MULTIPLE AREAS DAMAGED BOTH ON ROD AND PISTON MATERIAL MISSING FROM BOTH PISTON AND ROD, POSSIBLE HYDRAULIC CLEAN OUT NEEDED CYLINDER STAMPED POSSIBLY INDICATING COMPONENT SHOP REBUILD ROOT CAUSE OF FAILURE WILL BE DETERMINED WITH COMPONENT SHOP. CUSTOMER CONCERN TECH ID: 5436 - THURSDAY, SEPTEMBER 30, 2021 T/S INOP APRONTECH ID: 5232 - APRON CYLINDER, PINNED CYLINDER AND ARRON. CHANGED HYDRAULIC FILTERS AND SCREENS. FILLED HYDRAULIC OIL WITH CUSTOMER'S OIL. STARTED MACHINE, CHECKED FOR LEAKS, NONE FOUND. CHECKED OPERATION OF APRON. REPAIR COMMENTS TECH ID: 5436 - THURSDAY, SEPTEMBER 30, 2021 - 5436 9/30- CALLED CUSTOMER AND TRAVELED TO JOB SITE LOCATED MACHINE AND DOWNLOADED PSR ACTIVE DATA LINK FAULTS PRESENT NO DATA LINK FAULTS PERTAIN TO APRON PERFORME AND TRAVELED TO JOB SITE LOCATED MACHINE AND DOWNLOADED PSR ACTIVE DATA LINK FAULTS PRESENT NO DATA LINK FAULTS PERTAIN TO APRON MACHINE YOU COULD SEE APRON CYLINDER MOVING SLIGHTLY CHECKED THAT APRON WAS NOT BEN
				SHOP REBUILD ROOT CAUSE OF FAILURE WILL BE DETERMINED WITH COMPONENT

Oct 26, 2021	Service	6,284	Recondition Apron Lift Cylinder	**REPAIR SPECIFICATION INCLUDES** -CHECK ROD FOR STRAIGHTNESS AND ROUNDNESS -CHECK THREADS -HONE AS NEEDED TO.003 INCHES -RESEAL HEAD AND PISTON - TORQUE NUT TO PROPER SPECIFICATIONS -TEST FOR LEAKAGE AND OPERATION -PAINT **AVAILABLE AS NEEDED AT ADDITIONAL COST** -SALVAGE WEAR BAND -RECHROME OR POLISH ROD -SALVAGE OR REPLACE CYLINDER ROD, PISTON, HEAD,NUT OR BARREL -BUILD AND BORE ROD EYE OR BARREL EYE -INSTALL NEW MOUNTINGS, BEARINGS AND SEALS -RESEAL QUICK DROP VALVES IF APPLICABLE -REROD - RETUBE -HONE OVERSIZE -CHARGES FOR UNACCEPTABLE CORES CUSTOMER COMPLAINT: RECONDITION APRON LIFT CYLINDER CAUSE OF FAILURE: ROD FAILURE - FRACTURED RESULTANT DAMAGE: RECOMMEND REPLACING WITH NEW OR REMAN ROD. FOUND SEALS TO BE DAMAGED RECOMMEND REPLACING WITH NEW. FOUND DAMAGE AND SORING IN BARREL AND CYLINDER IS .001 AWAY FROM BEING OUT OF SPEC WILL NOT BE ABLE TO HONE OUT RECOMMEND REPLACING WITH NEW. FOUND SENSOR TO BE BENT AND DAMAGED RECOMMEND REPLACING WITH NEW. FOUND BARREL EYE BEARINGS TO BE DAMAGED RECOMMEND REPLACING WITH NEW. FOUND PISTON BORE TO HAVE DAMAGE UNABLE TO REPAIR RECOMMEND REPLACING WITH NEW. HEAD WILL MAKE REUSE. RECOMMEND REPLACING ENTIRE CYLINDER DUE TO BEING MORE COST EFFICIENT. REPAIR PROCESS COMMENTS: 5649 10/12/2021 - INSTALLED HARDLINE ON NEW CYLINDER GROUP. INSTALLED NEW HARNESS ON HARDLINE. INSTALLED NEW BEARINGS INTO BARREL MOUNT. UNABLE TO INSTALL MOUNT ONTO BARREL DUE TO PIN NOT BEING WITH OLD CYLINDER WHEN BROUGHT IN. PUT CYLINDER ON MOUNT ON PALLET. ROB DROKEN
Oct 26, 2021	Service	6,284	Furnish **use 608** Apron Lift Cylinder	RESULTANT DAMAGE: ROD FAILURE ROD END FRACTURED UNABLE TO MAKE REUSE. BARREL HAD SEVERE DAMAGE AND IS WITHIN .001 OF BEING OUT OF SPEC WILL NOT HAVE ENOUGH MATERIAL TO REMOVE DAMAGE AND STILL BE WITHIN SPEC RECOMMEND REPLACING WITH NEW. FOUND SENSOR TO BE BENT AND DAMAGED RECOMMEND REPLACING WITH NEW. FOUND PISTON BORE TO HAVE SEVERE DAMAGE UNABLE TO REPAIR RECOMMEND GETTING NEW PISTON. FOUND BARREL EYE BEARINGS TO BE DAMAGED RECOMMEND REPLACING WITH NEW. FOUND TRUNNION BEARINGS TO BE DAMAGED RECOMMEND REPLACING WITH NEW. REPAIR PROCESS COMMENTS: 5649 10/12/2021 - NEW CYLINDER GROUP WAS ORDERED AS PER CUSTOMER REQUEST.
Sep 21, 2021	Service	6,214	Additional Charges Pm 4	

Sep 21, 2021	Service	6,214	Perform Pm 4	*NOTICE* AND MAY NOT COVER ALL THE CHECKS THAT PERTAIN TO THE MODEL YOU ARE WORKING ON. ALWAYS FOLLOW CATERPILLAR OPERATIONAL MAINTENANCE MANUAL FOR SPECIFIC INSTRUCTIONS FOR THE SERVICE YOU ARE PERFORMINGCHANGE ENGINE OIL AND FILTER - CHANGE TRANSMISSION OIL AND FILTER -CLEAN AND INSPECT MAGNETIC SCREEN -CHANGE HYDRAULIC OIL AND FILTERS -CHANGE DIFFERENTIAL AND FINAL DRIVE OIL - CHANGE SWING DRIVE OIL (WHEN APPLICABLE) -ADJUST ENGINE VALVE LASH & CHECK ROTATORS -OBTAIN SCHEDULED OIL SAMPLES - THE RESULTS OF THESE WILL BE SENT TO YOU UPON COMPLETION -CHANGE ENGINE COOLANT IF RECOMMENDED OR CHECK COOLANT CONDITION AND ADD INHIBITOR IF NECESSARY -ADJUST ENGINE VALVE LASH AND CHECK ROTATORS -CLEAN AIR INTAKE PRE-CLEANER BOWL -LUBRICATE ALL GREASE FITTINGS -CHECK ALL FLUID LEVELS -CLEAN ENGINE CRANKCASE BREATHER -DRAIN WATER SEPARATOR -CLEAN PRIMARY FUEL FILTER AND REPLACE SECONDARY -PERFORM VISUAL OPERATIONAL INSPECTION ************************************
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REPAIR PROCESS COMMENTS: WENT ON A 2,000 HOUR PM

Sep 20, 2021	Service	6,214	Perform Pm 4	*NOTICE* AND MAY NOT COVER ALL THE CHECKS THAT PERTAIN TO THE MODEL YOU ARE WORKING ON. ALWAYS FOLLOW CATERPILLAR OPERATIONAL MAINTENANCE MANUAL FOR SPECIFIC INSTRUCTIONS FOR THE SERVICE YOU ARE PERFORMINGCHANGE ENGINE OIL AND FILTER - CHANGE TRANSMISSION OIL AND FILTER -CLEAN AND INSPECT MAGNETIC SCREEN -CHANGE HYDRAULIC OIL AND FILTERS -CHANGE DIFFERENTIAL AND FINAL DRIVE OIL - CHANGE SWING DRIVE OIL (WHEN APPLICABLE) -ADJUST ENGINE VALVE LASH & CHECK ROTATORS -OBTAIN SCHEDULED OIL SAMPLES - THE RESULTS OF THESE WILL BE SENT TO YOU UPON COMPLETION -CHANGE ENGINE COOLANT IF RECOMMENDED OR CHECK COOLANT CONDITION AND ADD INHIBITOR IF NECESSARY -ADJUST ENGINE VALVE LASH AND CHECK ROTATORS -CLEAN AIR INTAKE PRE-CLEANER BOWL -LUBRICATE ALL GREASE FITTINGS -CHECK ALL FLUID LEVELS -CLEAN ENGINE CRANKCASE BREATHER -DRAIN WATER SEPARATOR -CLEAN PRIMARY FUEL FILTER AND REPLACE SECONDARY -PERFORM VISUAL OPERATIONAL INSPECTION ************************************
Sep 20, 2021	Service	6,214	Additional Charges Pm 4	

Sep 20, 2021	Service	6,214	Perform Pm 4	*NOTICE* AND MAY NOT COVER ALL THE CHECKS THAT PERTAIN TO THE MODEL YOU ARE WORKING ON. ALWAYS FOLLOW CATERPILLAR OPERATIONAL MAINTENANCE MANUAL FOR SPECIFIC INSTRUCTIONS FOR THE SERVICE YOU ARE PERFORMINGCHANGE ENGINE OIL AND FILTER - CHANGE TRANSMISSION OIL AND FILTER -CLEAN AND INSPECT MAGNETIC SCREEN -CHANGE HYDRAULIC OIL AND FILTERS -CHANGE DIFFERENTIAL AND FINAL DRIVE OIL - CHANGE SWING DRIVE OIL (WHEN APPLICABLE) -ADJUST ENGINE VALVE LASH & CHECK ROTATORS -OBTAIN SCHEDULED OIL SAMPLES - THE RESULTS OF THESE WILL BE SENT TO YOU UPON COMPLETION -CHANGE ENGINE COOLANT IF RECOMMENDED OR CHECK COOLANT CONDITION AND ADD INHIBITOR IF NECESSARY -ADJUST ENGINE VALVE LASH AND CHECK ROTATORS -CLEAN AIR INTAKE PRE-CLEANER BOWL -LUBRICATE ALL GREASE FITTINGS -CHECK ALL FLUID LEVELS -CLEAN ENGINE CRANKCASE BREATHER -DRAIN WATER SEPARATOR -CLEAN PRIMARY FUEL FILTER AND REPLACE SECONDARY -PERFORM VISUAL OPERATIONAL INSPECTION ************************************
Sep 20, 2021	Service	6,214	Additional Charges Pm 4	
Sep 20, 2021	Service	6,228	Troubleshoot Engine	9-17-21 4829 ARRIVED AT CUSTOMER SITE AND LOCATED MACHINE. HOOKED UP ET AND PULLED PRODUCT STATUS REPORT. USED ET AND CHECKED FOR CODES. BOTH ENGINE WAS FORCE SHUT DOWN DURING REGEN CYCLE CAUSING ENGINES TO TRY AND COMPLETE BURNS NUMEROUS TIMES A DAY. STARTED ENGINES AND USED ET AND RUN SOOT BURN ON BOTH ENGINE. HAD TO RUN SOOT BURN ONE ENGINE AT A TIME. AFTER SOOT BURN COMPLETED ON BOTH ENGINES USED ET AND RUN MANUAL REGEN ON BOTH ENGINE. MANUAL REGEN COMPLETED 100% ON BOTH EMISSION CODES
Sep 20, 2021	Service	6,228	Travel To/from Work Area	
Sep 20, 2021	Service	6,228	Travel To/from Work Area	

Sep 20, 2021	Service	6,228	Troubleshoot Engine	9-17-21 4829 ARRIVED AT CUSTOMER SITE AND LOCATED MACHINE. HOOKED UP ET AND PULLED PRODUCT STATUS REPORT. USED ET AND CHECKED FOR CODES. BOTH ENGINE WAS FORCE SHUT DOWN DURING REGEN CYCLE CAUSING ENGINES TO TRY AND COMPLETE BURNS NUMEROUS TIMES A DAY. STARTED ENGINES AND USED ET AND RUN SOOT BURN ON BOTH ENGINE. HAD TO RUN SOOT BURN ONE ENGINE AT A TIME. AFTER SOOT BURN COMPLETED ON BOTH ENGINES USED ET AND RUN MANUAL REGEN ON BOTH ENGINE. MANUAL REGEN COMPLETED 100% ON BOTH Emission codes EMISSION CODES
Sep 19, 2021	Service	6,161	Travel To/from Work Area	
Sep 19, 2021	Service	6,161	Troubleshoot Engine	CUSTOMER CONCERN TECH ID: 5436 MONDAY, SEPTEMBER 6, 2021 11:06 T/S AFT#1 GAS SENSOR VOLTAGE ABOVE NORMAL CAUSE OF FAILURE - FAILED AFT#1 GAS TEMP SENSOR. RESULTANT DAMAGE - INOP AFTER TREATMENT SYSTEM. REPAIR COMMENTS 5436 9/1 - TRAVELED TO JOB SITE DOWNLOADED PSR AFT #1 GAS TEMP SENSOR VOLTAGE ABOVE NORMAL 3485-3 - PLACED JUMPER BETWEEN SIGNAL AND RETURN WIRE, CODE CHANGED STATE BETWEEN -3 AND -4 REMOVED PANELING AND REMOVED SENSOR FROM MACHINE ORDERED PARTS TO DROP BOX, WILL RETURN 9/2. 5436 9/2 - ARRIVED AT JOB SITE INSTALLED NEW SENSOR AND FASTENED WITH NEW WIRE TIES STARTED MACHINE, PERFORMED MANUAL REGEN SOOT AT 117% AT START OF REGEN SOOT LOAD AT 0% AFTER REGEN NO CODES ACTIVE FOR AFT# 1 CONTROLLER REPAIR COMPLETE. T/s engine codes, ard 1 exhaust temp sensor volt T/S ENGINE CODES, ARD 1 EXHAUST TEMP SENSOR VOLT HIGH, DPF 1 LEVEL HIGH MACHINE DERATING
Sep 19, 2021	Service	6,161	Troubleshoot Display Module Acu	CUSTOMER CONCERN TECH ID: 5436 MONDAY, SEPTEMBER 6, 2021 11:23 T/S PRIMARY DISPLAY FAULT. CAUSE OF FAILURE - INTERNAL FAULT THAT IS INTERMITTENT. DURING TROUBLESHOOTING OF AFT#1 CODES PRIMARY DISPLAY INTERMITTENTLY SHUT OFF DISPLAY THREW AUDIBLE ALARM AND ALL GAUGES PEGGED CHECKED DATA LINK WIRING, WIRING OK CHECKED POWER AND GROUND, POWER AND GROUND OK INTERNAL FAULT PRESENT IN DISPLAY ORDERED REMAN DISPLAY WILL RETURN 9/2 5436 9/2 - INSTALLED REMAN DISPLAY AND FLASHED SOFTWARE NO ADDITIONAL FAULTS PRESENT REPAIR COMPLETE. Troubleshoot primary display TROUBLESHOOT PRIMARY DISPLAY
Sep 19, 2021	Service	6,161	Travel To/from Work Area	

Sep 19, 2021	Service	6,161	Troubleshoot Engine	CUSTOMER CONCERN TECH ID: 5436 MONDAY, SEPTEMBER 6, 2021 11:06 T/S AFT#1 GAS SENSOR VOLTAGE ABOVE NORMAL CAUSE OF FAILURE - FAILED AFT#1 GAS TEMP SENSOR. RESULTANT DAMAGE - INOP AFTER TREATMENT SYSTEM. REPAIR COMMENTS 5436 9/1 - TRAVELED TO JOB SITE DOWNLOADED PSR AFT #1 GAS TEMP SENSOR VOLTAGE ABOVE NORMAL 3485-3 - PLACED JUMPER BETWEEN SIGNAL AND RETURN WIRE, CODE CHANGED STATE BETWEEN 3 AND -4 REMOVED PANELING AND REMOVED SENSOR FROM MACHINE ORDERED PARTS TO DROP BOX, WILL RETURN 9/2. 5436 9/2 - ARRIVED AT JOB SITE INSTALLED NEW SENSOR AND FASTENED WITH NEW WIRE TIES STARTED MACHINE, PERFORMED MANUAL REGEN SOOT AT 117% AT START OF REGEN SOOT LOAD AT 0% AFTER REGEN NO CODES ACTIVE FOR AFT# 1 CONTROLLER REPAIR COMPLETE. T/S engine codes, ard 1 exhaust temp sensor volt T/S ENGINE CODES, ARD 1 EXHAUST TEMP SENSOR VOLT HIGH, DPF 1 LEVEL HIGH MACHINE DERATING
Sep 19, 2021	Service	6,161	Troubleshoot Display Module Acu	CUSTOMER CONCERN TECH ID: 5436 MONDAY, SEPTEMBER 6, 2021 11:23 T/S PRIMARY DISPLAY FAULT. CAUSE OF FAILURE - INTERNAL FAULT THAT IS INTERMITTENT. DURING TROUBLESHOOTING OF AFT#1 CODES PRIMARY DISPLAY INTERMITTENTLY SHUT OFF DISPLAY THREW AUDIBLE ALARM AND ALL GAUGES PEGGED CHECKED DATA LINK WIRING, WIRING OK CHECKED POWER AND GROUND, POWER AND GROUND OK INTERNAL FAULT PRESENT IN DISPLAY ORDERED REMAN DISPLAY WILL RETURN 9/2 5436 9/2 - INSTALLED REMAN DISPLAY WILL RETURN 9/2 5436 9/2 - INSTALLED REMAN DISPLAY AND FLASHED SOFTWARE NO ADDITIONAL FAULTS PRESENT REPAIR COMPLETE. Troubleshoot primary display TROUBLESHOOT PRIMARY DISPLAY
Aug 08, 2021	Service	5,983	Travel To/from Work Area	
Aug 08, 2021	Service	5,983	Repair Transmission & Drive Line	REPAIR PROCESS COMMENTS: ARRIVED AT CUSTOMER SITE AND LOCATED MACHINE. WAITED FOR OPERATOR TO DOWN MACHINE. HOOKED UP ET AND CHECKED FOR ACTIVE CODES. MACHINE DOES NOT HAVE ACTIVE CODES. HAD OPERATOR RUN MACHINE TO SEE IF CODES BECOME ACTIVE. CODES NEVER BECAME ACTIVE. CALLED AND INFORMED CUSTOMER CODES ON MACHINE NEVER BECAME ACTIVE. INFORMED CUSTOMER TO CALL ME IF CODES BECOME ACTIVE. CLEANED UP WORK AREA. Machine throwing multiple codes after harness MACHINE THROWING MULTIPLE CODES AFTER HARNESS REPLACED. SEG.ADDED 7/13 -LL

Aug 08, 2021	Service	5,983	Troubleshoot Transmission & Drive Line	REPAIR PROCESS COMMENTS: 7-7-21 4829 ARRIVED AT CUSTOMER SITE AND LOCATED MACHINE. USED ET AND CHECKED FOR CODES. MACHINE HAS MULTIPLE CODES FOR REAR ENGINE FAULTS. INSPECTED WIRING HARNESS AT REAR ENGINE. FOUND CONNECTIONS IN CANNON CONNECTOR LOOSE/DAMAGE. LOOKED UP PART AND ORDER. NEW HARNESS BACK ORDER. CALLED AND INFORMED CUSTOMER I WILL BE BACK WHEN HARNESS COMES IN. CLEANED UP WORK AREA. REPAIR PROCESS COMMENTS: 7-8-21 4829 PICKED UP PARTS FROM WAGNER AND PROCEEDED TO CUSTOMER SITE. ARRIVED AT CUSTOMER SITE AND LOCATED MACHINE. DISCONNECTED ALL ENDS ON REAR ENGINE HARNES. CUT ALL ZIP TIES TO REAR ENGINE HARNESS. REMOVED HARNESS FROM MACHINE. ROUTED IN NEW ENGINE HARNESS. CONNECTED ALL ENDS OF HARNESS TO PROPER LOCATION. ZIP TIE HARNESS INTO PLACE. STARTED MACHINE AND TESTED FOR PROPER OPERARTIONS. HAD OPERATOR RUN MACHINE TO CONFIRM REPAIRS. OPERATOR RETURN WITH MACHINE AND CONFIRM THAT REAR ENGINE AND TRANSMISSION IS NOT THROWING CODES. CLEANED UP WORK AREA. RETURN TO WAGNER AND RETURN WARRANTY PARTS. CALLED AND INFORMED CUSTOMER MACHINE HAS BEEN REPAIRES. JOB COMPLETED. T/S power train control issue T/S POWER TRAIN CONTROL ISSUE
Aug 08, 2021	Service	5,983	Troubleshoot Transmission & Drive Line	REPAIR PROCESS COMMENTS: 7-7-21 4829 ARRIVED AT CUSTOMER SITE AND LOCATED MACHINE. USED ET AND CHECKED FOR CODES. MACHINE HAS MULTIPLE CODES FOR REAR ENGINE FAULTS. INSPECTED WIRING HARNESS AT REAR ENGINE. FOUND CONNECTIONS IN CANNON CONNECTOR LOOSE/DAMAGE. LOOKED UP PART AND ORDER. NEW HARNESS BACK ORDER. CALLED AND INFORMED CUSTOMER I WILL BE BACK WHEN HARNESS COMES IN. CLEANED UP WORK AREA. REPAIR PROCESS COMMENTS: 7-8-21 4829 PICKED UP PARTS FROM WAGNER AND PROCEEDED TO CUSTOMER SITE. ARRIVED AT CUSTOMER SITE AND LOCATED MACHINE. DISCONNECTED ALL ENDS ON REAR ENGINE HARNES. CUT ALL ZIP TIES TO REAR ENGINE HARNESS. REMOVED HARNESS FROM MACHINE. ROUTED IN NEW ENGINE HARNESS. CONNECTED ALL ENDS OF HARNESS TO PROPER LOCATION. ZIP TIE HARNESS INTO PLACE. STARTED MACHINE AND TESTED FOR PROPER OPERARTIONS. HAD OPERATOR RUN MACHINE TO CONFIRM REPAIRS. OPERATOR RETURN WITH MACHINE AND CONFIRM THAT REAR ENGINE AND TRANSMISSION IS NOT THROWING CODES. CLEANED UP WORK AREA. RETURN TO WAGNER AND RETURN WARRANTY PARTS. CALLED AND INFORMED CUSTOMER MACHINE HAS BEEN REPAIRES. JOB COMPLETED. T/S power train control issue T/S POWER TRAIN CONTROL ISSUE
Aug 08, 2021	Service	5,983	Travel To/from Work Area	

Aug 08, 2021	Service	5,983	Repair Transmission & Drive Line	REPAIR PROCESS COMMENTS: ARRIVED AT CUSTOMER SITE AND LOCATED MACHINE. WAITED FOR OPERATOR TO DOWN MACHINE. HOOKED UP ET AND CHECKED FOR ACTIVE CODES. MACHINE DOES NOT HAVE ACTIVE CODES. HAD OPERATOR RUN MACHINE TO SEE IF CODES BECOME ACTIVE. CODES NEVER BECAME ACTIVE. CALLED AND INFORMED CUSTOMER CODES ON MACHINE NEVER BECAME ACTIVE. INFORMED CUSTOMER TO CALL ME IF CODES BECOME ACTIVE. CLEANED UP WORK AREA. Machine throwing multiple codes after harness MACHINE THROWING MULTIPLE CODES AFTER HARNESS REPLACED. SEG.ADDED 7/13 -LL
Aug 03, 2021	Parts			
Aug 02, 2021	Parts			
Jul 20, 2021	Service	5,761	Troubleshoot Seat Assembly	CUSTOMER COMPLAINT: ACTIVE CODE FOR SEAT RIDE CAUSE OF FAILURE: VOICE COILS RESULTANT DAMAGE: SEAT/ RIDE FAULT CODES ACTIVE REPAIR PROCESS COMMENTS: ACTIVE CODE 520707 FOR SEAT RIDE/ ADJUSTMENT. TROUBLESHOOT WIRING AND CONNECTIONS, DAMAGED WIRE HARNESS WHILE UNPLUGGING TO TROUBLESHOOT, REPLACED PLUG. AFTER CLEARING CODES, THEY WOULD COME BACK SO I REPLACED VOICE COILS PER TROUBLESHOOTING DIRECTIONS. CLEARED CODES, RAN MACHINE, CODES DID NOT COME BACK. Repair active code for the seat. REPAIR ACTIVE CODE FOR THE SEAT. SMITH ADD SEGMENT. CHARGE TO RENTAL FLEET
Jul 20, 2021	Service	5,761	Travel To/from Work Area	
Jul 20, 2021	Service	5,761	Clean Machine	**REPAIR SPECIFICATIONS INCLUDES** -CLEAN MACHINE INCLUDES: -STEAM CLEAN COMPLETE MACHINE **AVAILABLE AS NEEDED AT ADDITIONAL COST** -REMOVE & INSTALL CRANKCASE GUARDS
Jul 20, 2021	Service	5,761	Transport Machine	Deliver machine to 84th & telluride DELIVER MACHINE TO 84TH & TELLURIDE
Jul 20, 2021	Service	5,761	Troubleshoot Engine	CUSTOMER CONCERN- FUEL LEAK. ARRIVED AT THE MACHINE AND FOUND FUEL LEAKING FROM THE PRIMARY FUEL FILTER. REMOVED THE FILTER AND THE BOWL, RESEALED FITTING IN THE FILTER BOWL, MACHINE AND VERIFIED FUEL IS NO LONGER LEAKING. T/s fuel leak on machine T/S FUEL LEAK ON MACHINE

Jul 20, 2021	Service	5,761	Troubleshoot Braking System	CUSTOMER CONCERN- LOW BRAKE ACCUMULATOR PRESSURE WARNING. REPAIR COMMENTS- ARRIVED AT THE MACHINE AND TROUBLESHOT THE LOW BRAKES LEAKING INTO THE DIFFERENTIAL HOUSING AND THE BREATHER. I ADVISED THE CUSTOMER AND THEY UNIT TO MAKE REPAIRS. CUSTOMER COMPLAINT: TROUBLESHOOT FOR BRAKE HYD FLUID BLEEDING INTO DIFF. CAUSE OF FAILURE: DUO-CONE SEALS RESULTANT DAMAGE: FILLING DIFFERENTIAL WITH HYDRAULIC FLUID REPAIR PROCESS COMMENTS: TROUBLESHOOT FOR DIFFERENTIAL OVERFULL WITH HYDRAULIC FLUID. TEST SERVICE AND PARK BRAKE PRESSURE. PARK BRAKES WOULD BLEED OFF AFTER PRESSURE APPLIED. REMOVED LEFT SIDE BRAKE ANCHOR TO INSPECT. DISASSEMBLED ANCHOR BRAKE, FOUND IT HAD A SPOT DAMAGED WHERE BRAKE PISTON SEALS RUN. ORDERED NEW BRAKE ANCHOR AND REPLACED ALL SEALS AND BACKING RINGS, MEASURE BRAKE DISCS, ALL WERE IN SPEC, SO REUSED. REASSEMBLED AND PRESSURE TESTED FOR LEAKS. INSTALLED ON SPINDLE. AND REASSEMBLED. REPLACED TRANS FILTER HOSES THAT WERE LEAKING. REMOVED BRAKE/FAN/DIFF LOCK VALVE TO ACCESS DIFF LOCK HOSE FITTING. RESEALED VALVE AND INSTALLED. CHECK BRAKE ACCUMULATOR PRESSURE, BOTH WERE LOW SO REFILLED TO SPEC PER AMBIENT TEMP. T/S IOW BRAKE ACCUMULATOR PRESSURE ISSUE ON MACH *TECH FOUND BOTH SIDES OF BRAKES BLEEDING INTO DIFF*
Jul 20, 2021	Service	5,761	Add Parts Service Brake	2
Jul 20, 2021	Service	5,761	Repair For Warranty Differential Lock	PERFORM SERVICE LETTER PS46880 CAUSE OF FAILURE: DEBRIS FROM CLUTCH ENGAGEMENT DAMAGED PISTON AND SEALS. RESULTANT DAMAGE: OVERFILLING DIFFERENTIAL. REPAIR PROCESS COMMENTS: PERFORMED PS46880 TO REPLACE DIFFERENTIAL LOCK ASSEMBLY, REPLACED DIFF LOCK ASSEMBLY. REMOVE LEFT WHEEL TO CLEAN SPINDLES AND REMOVE WHEEL SPEED SENSOR GROUP. REASSEMBLE .CLEAN AND WASH OFF AREA'S PER INSPECTOR AROUND WHEELS, HOODS AND TRANSMISSION. TOPPED OFF FLUIDS, REPAIRED INSPECTORS LIST. WROTE SERVICE REPORTS Perform ps46880 group #14 PERFORM PS46880 GROUP #14 SAVE ALL PARTS AND SMIS REQUIRED
Jul 20, 2021	Service	5,761	Repair For Warranty Wiring Harness	CUSTOMER COMPLAINT: REPLACE CUSHION HITCH HARNESS CAUSE OF FAILURE: SERVICE LETTER PS46877 RESULTANT DAMAGE: LOSS OF IMPLEMENT SYSTEM FUNCTIONS REPAIR PROCESS COMMENTS: R& R CUSHION HITCH HARNESS PER PS46877 SERVICE LETTER. Perform ps46877 group #5 PERFORM PS46877 GROUP #5 SAVE ALL PARTS AND SMIS REQUIRED

Jul 20, 2021	Service	5,761	Add Parts Service Brake	2
Jul 20, 2021	Service	5,761	Travel To/from Work Area	
Jul 20, 2021	Service	5,761	Troubleshoot Seat Assembly	CUSTOMER COMPLAINT: ACTIVE CODE FOR SEAT RIDE CAUSE OF FAILURE: VOICE COILS RESULTANT DAMAGE: SEAT/ RIDE FAULT CODES ACTIVE REPAIR PROCESS COMMENTS: ACTIVE CODE 520707 FOR SEAT RIDE/ ADJUSTMENT. TROUBLESHOOT WIRING AND CONNECTIONS, DAMAGED WIRE HARNESS WHILE UNPLUGGING TO TROUBLESHOOT, REPLACED PLUG. AFTER CLEARING CODES, THEY WOULD COME BACK SO I REPLACED VOICE COILS PER TROUBLESHOOTING DIRECTIONS. CLEARED CODES, RAN MACHINE, CODES DID NOT COME BACK. Repair active code for the seat. REPAIR ACTIVE CODE FOR THE SEAT. SMITH ADD SEGMENT. CHARGE TO RENTAL FLEET
Jul 20, 2021	Service	5,761	Clean Machine	**REPAIR SPECIFICATIONS INCLUDES** -CLEAN MACHINE INCLUDES: -STEAM CLEAN COMPLETE MACHINE **AVAILABLE AS NEEDED AT ADDITIONAL COST** -REMOVE & INSTALL CRANKCASE GUARDS
Jul 20, 2021	Service	5,761	Troubleshoot Braking System	CUSTOMER CONCERN- LOW BRAKE ACCUMULATOR PRESSURE WARNING. REPAIR COMMENTS- ARRIVED AT THE MACHINE AND TROUBLESHOT THE LOW BRAKES LEAKING INTO THE DIFFERENTIAL HOUSING AND THE BREATHER. I ADVISED THE CUSTOMER AND THEY UNIT TO MAKE REPAIRS. CUSTOMER COMPLAINT: TROUBLESHOOT FOR BRAKE HYD FLUID BLEEDING INTO DIFF. CAUSE OF FAILURE: DUO-CONE SEALS RESULTANT DAMAGE: FILLING DIFFERENTIAL WITH HYDRAULIC FLUID REPAIR PROCESS COMMENTS: TROUBLESHOOT FOR DIFFERENTIAL OVERFULL WITH HYDRAULIC FLUID. TEST SERVICE AND PARK BRAKE PRESSURE. PARK BRAKES WOULD BLEED OFF AFTER PRESSURE APPLIED. REMOVED LEFT SIDE BRAKE ANCHOR TO INSPECT. DISASSEMBLED ANCHOR BRAKE, FOUND IT HAD A SPOT DAMAGED WHERE BRAKE PISTON SEALS RUN. ORDERED NEW BRAKE ANCHOR AND REPLACED ALL SEALS AND BACKING RINGS, MEASURE BRAKE DISCS, ALL WERE IN SPEC, SO REUSED. REASSEMBLED AND PRESSURE TESTED FOR LEAKS. INSTALLED ON SPINDLE. AND REASSEMBLED. REPLACED TRANS FILTER HOSES THAT WERE LEAKING. REMOVED BRAKE/FAN/DIFF LOCK VALVE TO ACCESS DIFF LOCK HOSE FITTING. RESEALED VALVE AND INSTALLED. CHECK BRAKE ACCUMULATOR PRESSURE,BOTH WERE LOW SO REFILLED TO SPEC PER AMBIENT TEMP. T/S IOW BRAKE ACCUMULATOR PRESSURE ISSUE ON MACH *TECH FOUND BOTH SIDES OF BRAKES BLEEDING INTO DIFF*

Jul 20, 2021	Service	5,761	Repair For Warranty Wiring Harness	CUSTOMER COMPLAINT: REPLACE CUSHION HITCH HARNESS CAUSE OF FAILURE: SERVICE LETTER PS46877 RESULTANT DAMAGE: LOSS OF IMPLEMENT SYSTEM FUNCTIONS REPAIR PROCESS COMMENTS: R& R CUSHION HITCH HARNESS PER PS46877 SERVICE LETTER. Perform ps46877 group #5 PERFORM PS46877 GROUP #5 SAVE ALL PARTS AND SMIS REQUIRED
Jul 20, 2021	Service	5,761	Troubleshoot Engine	CUSTOMER CONCERN- FUEL LEAK. ARRIVED AT THE MACHINE AND FOUND FUEL LEAKING FROM THE PRIMARY FUEL FILTER. REMOVED THE FILTER AND THE BOWL, RESEALED FITTING IN THE FILTER BOWL, MACHINE AND VERIFIED FUEL IS NO LONGER LEAKING. T/s fuel leak on machine T/S FUEL LEAK ON MACHINE
Jul 20, 2021	Service	5,761	Transport Machine	Deliver machine to 84th & telluride DELIVER MACHINE TO 84TH & TELLURIDE
Jul 20, 2021	Service	5,761	Repair For Warranty Differential Lock	PERFORM SERVICE LETTER PS46880 CAUSE OF FAILURE: DEBRIS FROM CLUTCH ENGAGEMENT DAMAGED PISTON AND SEALS. RESULTANT DAMAGE: OVERFILLING DIFFERENTIAL. REPAIR PROCESS COMMENTS: PERFORMED PS46880 TO REPLACE DIFFERENTIAL LOCK ASSEMBLY, REPLACED DIFF LOCK ASSEMBLY. REMOVE LEFT WHEEL TO CLEAN SPINDLES AND REMOVE WHEEL SPEED SENSOR GROUP. REASSEMBLE .CLEAN AND WASH OFF AREA'S PER INSPECTOR AROUND WHEELS, HOODS AND TRANSMISSION. TOPPED OFF FLUIDS, REPAIRED INSPECTORS LIST. WROTE SERVICE REPORTS Perform ps46880 group #14 PERFORM PS46880 GROUP #14 SAVE ALL PARTS AND SMIS REQUIRED
Jun 23, 2021	Service	5,771	Charge Ride Control System	REPAIR PROCESS COMMENTS: 6-10-21 4829 ARRIVED AT CUSTOMER SITE AND WAITED FOR OPERATOR TO DOWN MACHINE. INSPECTED AND TESTED CUSHION CYLINDER. CYLINDER IS BOUNCING UP AND DOWN WHEN ENGAGE. CHECKED CHARGE IS ACCUMULATOR AND FOUND HIGH PRESSURE ACCUMULATOR LOW AND LOW ACCUMULATOR FLAT. RETURN TO WAGNER AND PICKED UP NITROGEN BOTTLE AND CHARGE KIT. RETURN TO MACHINE WITH PROPER TOOLING. HOOKED UP CHARGE KIT TO ACCUMULATOR. CHARGED HIGH PRESSURE ACCUMULATOR TO SPECIFICATIONS 1360 PSI AND LOW ACCUMULATOR TO 367 PSI AS PER CAT SIS INSTRUCTION. REMOVED TESTED CUSHION CYLINDER FOR PROPER OPERATIONS. CUSHION CYLIUNDER IS WORKING PROPERLY. HAD OPERATOR RUN MACHINE TO VERIFY REPAIR. CLEANED UP WORK AREA WHILE WAITING FOR OPERATOR TO RETURN WITH MACHINE. OPERATOR RETURN WITH MACHINE AND INFORMED ME THAT CUSHION CYLINDER IS WORKING PROPERLY. CALLED AND INFORMED CUSTOMER MACHINE HAS BEEN REPAIRED. JOB COMPLETED. Charge accumulator

Jun 23, 2021	Service	5,771	Travel To/from Work Area	
Jun 23, 2021	Service	5,771	Travel To/from Work Area	
Jun 23, 2021	Service	5,771	Charge Ride Control System	REPAIR PROCESS COMMENTS: 6-10-21 4829 ARRIVED AT CUSTOMER SITE AND WAITED FOR OPERATOR TO DOWN MACHINE. INSPECTED AND TESTED CUSHION CYLINDER. CYLINDER IS BOUNCING UP AND DOWN WHEN ENGAGE. CHECKED CHARGE IS ACCUMULATOR AND FOUND HIGH PRESSURE ACCUMULATOR LOW AND LOW ACCUMULATOR FLAT. RETURN TO WAGNER AND PICKED UP NITROGEN BOTTLE AND CHARGE KIT. RETURN TO MACHINE WITH PROPER TOOLING. HOOKED UP CHARGE KIT TO ACCUMULATOR. CHARGED HIGH PRESSURE ACCUMULATOR TO SPECIFICATIONS 1360 PSI AND LOW ACCUMULATOR TO 367 PSI AS PER CAT SIS INSTRUCTION. REMOVED TESTED CUSHION CYLINDER FOR PROPER OPERATIONS. CUSHION CYLIUNDER IS WORKING PROPERLY. HAD OPERATOR RUN MACHINE TO VERIFY REPAIR. CLEANED UP WORK AREA WHILE WAITING FOR OPERATOR TO RETURN WITH MACHINE. OPERATOR RETURN WITH MACHINE AND INFORMED ME THAT CUSHION CYLINDER IS WORKING PROPERLY. CALLED AND INFORMED CUSTOMER MACHINE HAS BEEN REPAIRED. JOB COMPLETED. Charge accumulator
Jun 11, 2021	Service	0	Load/unload Machine	LOAD/UNLOAD MACHINE
Apr 27, 2021	Service	0	Rental Machine	
Apr 27, 2021	Service	0	Rental Machine	
Apr 27, 2021	Service	0	Load/unload Machine	
Jan 25, 2021	Service	5,557	Add Parts Pm 2	

Jan 25, 2021	Service	5,557	Perform Pm 2	*NOTICE* THE FOLLOWING DEFINITION IS A GENERAL STATEMENT AND MAY NOT COVER ALL THE CHECKS THAT PERTAIN TO THE MODEL YOU ARE WORKING ON. ALWAYS FOLLOW CATERPILLAR OPERATIONAL MAINTENANCE MANUAL FOR SPECIFIC INSTRUCTIONS FOR THE SERVICE YOU ARE PERFORMINGCHANGE ENGINE OIL AND FILTER - CHANGE HYDRAULIC AND TRANSMISSION FILTERS -OBTAIN SCHEDULED OIL SAMPLES - THE RESULTS OF THESE WILL BE SENT TO YOU UPON COMPLETIONCLEAN AIR INTAKE PRE- CLEANER BOWL -LUBRICATE ALL GREASE FITTINGS -DRAIN WATER SEPARATOR -CHECK COOLANT CONDITION AND ADD INHIBITOR IF NECESSARY -CHECK ALL FLUID LEVELS -CLEAN ENGINE CRANKCASE BREATHER REPLACE SECONDARY - CLEAN/REPLACE PRIMARY FUEL FILTER AND REPLACE SECONDARY -PERFORM VISUAL OPERATIONAL INSPECTION ************************************
Jan 18, 2021	Parts			
			Travel To/from Work	

Jan 15, 2021

5,387

Service

Area

Jan 15, 2021	Service	5,387	Troubleshoot Engine	CUSTOMER COMPLAINT: 5151-12-22-20 REPAIR PROCESS COMMENTS: ARRIVED ON LOCATION. INSPECTED MACHINE AND FOUND CRACKED FUEL LINE. LOOKED UP AND ORDERD PARTS FOR REPAIR THE NEXT MORNING. CUSTOMER COMPLAINT: 5925-12-23-20 BROKEN FUEL LINE CAUSE OF FAILURE: RESULTANT DAMAGE: MACHINE INOPERABLE REPAIR PROCESS COMMENTS: PULLED UP TO MACHINE, LOOKED UP FUEL LINE IN SIS, BEGAN TAKING OFF FUEL FILTER HOUSING, HARNESS LOCATED ABOVE FUEL FILTER HOUSING, MOVED HARNESS BELOW FUEL FILTER HOUSING, REMOVED FUEL HARD LINES AT FUEL TRANSFER PUMP, REMOVED FUEL HARD LINES IN FRONT OF BROKEN HARD LINE, REMOVED EXHAUST ELBOW TO EGR, REMOVED BROKEN HARD LINE, INSTALLED NEW HARD LINE, I HAD A HARD TIME INSTALLING THE CLAMPS FOR THE NEW FUEL LINE, I CONTACTED TECHNICAL SERVICES AND THEY INFORMED ME I WAS USING THE WRONG CLAMPS, THAT'S THE REASON I WAS HAVING A HARD TIME INSTALLING THE CLAMPS, INSTALLED CORRECT CLAMPS, RE INSTALLED LINES AND FUEL FILTER HOUSING IN REVERSE ORDER OF REMOVAL, TURNED ON REAR ENGINE, CHECKED FOR LEAKS, NO LEAKS WERE FOUND, RELEASED TO CUSTOMER, BEFORE LEAVING THE CUSTOMER WAS NOT ABLE TO TURN ON THE FRONT ENGINE, I HELPED THEM OUT UNTIL WE STARTED THE ENGINE. T/S & REPAIR BROKEN FUEL LINE ON THE REAR ENGINE
Jan 15, 2021	Service	5,387	Travel To/from Work Area	

Jan 15, 2021	Service	5,387	Troubleshoot Engine	CUSTOMER COMPLAINT: 5151-12-22-20 REPAIR PROCESS COMMENTS: ARRIVED ON LOCATION. INSPECTED MACHINE AND FOUND CRACKED FUEL LINE. LOOKED UP AND ORDERD PARTS FOR REPAIR THE NEXT MORNING. CUSTOMER COMPLAINT: 5925-12-23-20 BROKEN FUEL LINE CAUSE OF FAILURE: RESULTANT DAMAGE: MACHINE INOPERABLE REPAIR PROCESS COMMENTS: PULLED UP TO MACHINE, LOOKED UP FUEL LINE IN SIS, BEGAN TAKING OFF FUEL FILTER HOUSING, HARNESS LOCATED ABOVE FUEL FILTER HOUSING, MOVED HARNESS BELOW FUEL FILTER HOUSING, REMOVED FUEL HARD LINES AT FUEL TRANSFER PUMP, REMOVED HARD LINES IN FRONT OF BROKEN HARD LINE, REMOVED EXHAUST ELBOW TO EGR, REMOVED BROKEN HARD LINE, INSTALLED NEW HARD LINE, I HAD A HARD TIME INSTALLING THE CLAMPS FOR THE NEW FUEL LINE, I CONTACTED TECHNICAL SERVICES AND THEY INFORMED ME I WAS USING THE WRONG CLAMPS, THAT'S THE REASON I WAS HAVING A HARD TIME INSTALLING THE CLAMPS, INSTALLED CORRECT CLAMPS, RE INSTALLED LINES AND FUEL FILTER HOUSING IN REVERSE ORDER OF REMOVAL, TURNED ON REAR ENGINE, CHECKED FOR LEAKS, NO LEAKS WERE FOUND, RELEASED TO CUSTOMER, BEFORE LEAVING THE CUSTOMER WAS NOT ABLE TO TURN ON THE FRONT ENGINE, I HELPED THEM OUT UNTIL WE STARTED THE ENGINE. T/S & REPAIR BROKEN FUEL LINE ON THE REAR ENGINE
Dec 11, 2020	Service	5,093	Repair Hydraulic System	CUSTOMER COMPLAINT: MACHINE HAD HYD LEAK AT BOTTOM OF HITCH ON LEFT SIDE SO CHECKED OUT AND FOUND 346-6221 LINE HAD A BROKEN P CLIP AND BROKEN P CLIP THAT WAS STILL BOLTED TO FRAME HAD RUBBED HOLE IN TUBE. LOOKED ORDERED AND TODDED OUT TO SITE. INSTALLED IN MACHINE AND INSTALLED NEW P CLIP ON LINE. REPAIR COMPLETE. T/s & repair a hyd leak on hard line on the hitch- T/S & REPAIR A HYD LEAK ON HARD LINE ON THE HITCH- OF THE SCAPER
Dec 11, 2020	Service	5,093	Travel To/from Work Area	
Dec 11, 2020	Service	5,093	Repair Hydraulic System	CUSTOMER COMPLAINT: MACHINE HAD HYD LEAK AT BOTTOM OF HITCH ON LEFT SIDE SO CHECKED OUT AND FOUND 346-6221 LINE HAD A BROKEN P CLIP AND BROKEN P CLIP THAT WAS STILL BOLTED TO FRAME HAD RUBBED HOLE IN TUBE. LOOKED ORDERED AND TODDED OUT TO SITE. INSTALLED IN MACHINE AND INSTALLED NEW P CLIP ON LINE. REPAIR COMPLETE. T/S & repair a hyd leak on hard line on the hitch- T/S & REPAIR A HYD LEAK ON HARD LINE ON THE HITCH- OF THE SCAPER
Dec 11, 2020	Service	5,093	Travel To/from Work Area	

Sep 22, 2020	Service	4,950	Repair For Warranty Product Link System	CUSTOMER CONCERN WEDNESDAY, SEPTEMBER 9, 2020 8:17 AM - CAUSE OF FAILURE WEDNESDAY, SEPTEMBER 9, 2020 8:18 AM - TELEMATICS RADIOS WORLDWIDE WILL PHASE OUT OF 2G/3G COMMUNICATION THAT WILL OCCUR OVER THE NEXT 3 YEARS. DEVICES OPERATING IN THE 2G AND 3G RANGE WILL NO LONGER BE SUPPORTED OVER CELLULAR NETWORKS, RESULTING IN ASSETS NOT REPORTING IN VARIOUS USER INTERFACES. REPAIR COMMENTS WEDNESDAY, SEPTEMBER 9, 2020 8:18 AM - CONNECTED TO THE MACHINE USING ET AND IT WITH A PL542V2 (4G) PART NUMBER 581-8919. SET PRODUCT ID TO MACHINE SERIAL NUMBER, SYNCHRONIZED HOUR METERS, AND DOWNLOADED ANOTHER PSR ACCORDNG TO PS46643.
Sep 22, 2020	Service	4,950	Perform Pm 3	<ul> <li>*NOTICE* THE FOLLOWING DEFINITION IS A GENERAL STATEMENT AND MAY NOT COVER ALL THE CHECKS THAT PERTAIN TO THE MODEL YOU ARE WORKING ON. ALWAYS FOLLOW CATERPILLAR OPERATIONAL MAINTENANCE MANUAL FOR SPECIFIC INSTRUCTIONS FOR THE SERVICE YOU ARE PERFORMINGCHANGE ENGINE OIL AND FILTER - CHANGE TRANSMISSION OIL AND FILTER -CLEAN AND INSPECT MAGNETIC SCREEN -CHANGE HYDRAULIC FILTERS - OBTAIN SCHEDULED OIL SAMPLES - THE RESULTS OF THESE WILL BE SENT TO YOU UPON COMPLETION -LUBRICATE ALL GREASE FITTINGS -DRAIN WATER SEPARATOR -CHECK COOLANT CONDITION AND ADD INHIBITOR IF NECESSARY - CHECK ALL FLUID LEVELS -CLEAN ENGINE CRANKCASE BREATHER -CLEAN PRIMARY FUEL FILTER AND REPLACE SECONDARY -PERFORM VISUAL OPERATIONAL INSPECTION - CHANGE SWING DRIVE OIL (WHEN APPLICABLE)</li> <li>************************************</li></ul>

Sep 22, 2020	Service	4,950	Perform 5000 Service Hour Maint	CUSTOMER COMPLAINT: PERFORM 5000 HR SERVICE. REPAIR PROCESS COMMENTS: HELP WITH 5000 HR SERVICE. REMOVE HOOD FROM REAR PACK. REMOVE CEM FROM REAR PACK. REMOVE MOUNTS AND HARDWARE TO GAIN ACCESS TO THE VALVE COVER. TO #1 TDC AND CHECK VALVE CLEARANCE, INTAKE AND EXHAUST VALVES ARE OUT OF SPEC, LOOSE. ADJUST VALVE CLEARANCE TO SPEC. REINSTALL ENGINE BRAKE AND TORQUE MOUNTING HARDWARE TO SPEC. SET BRAKE CLEARANCE TO SPEC. REINSTALL VALVE COVER WITH A NEW SEAL. REINSTALL MOUNTS AND CEM. RUN UNIT AND CHECK FOR LEAKS. REINSTALL HOOD AND REPLACE MISSING AND DAMAGED HARDWARE AS NEEDED. REPAIR PROCESS COMMENTS: 4690-REMOVED CEM PACK FROM THE FRONT. INSTALLED REMAN PARTICULATE FILTER. INSTALLED NEW DEF INJECTOR AND SPARK PLUG. DRAINED COOLANT FROM REMOVE THE VALVE COVER. REMOVED VALVE COVER AND CHECKED VALVE LASH OF THE ENGINE AND THE ENGINE BRAKES. VALVES WERE OUT OF SPEC. ADJUSTED VALVES AS NEEDED TO SPEC. ADJUSTED ENGINE BRAKE VALVE LASH TO SPEC. INSTALLED VALVE COVER WITH NEW MACHINE AND NO LEAKS. WHILE ANOTHER TECHNICIAN REMOVED THE REAR CEM PACK AND ADJUSTED THE VALVES FOR THE REAR, I INSTALLED A NEW PARTICULATE FILTER, NEW DEF INJECTOR AND NEW SPARK PLUG.
Sep 22, 2020	Service	4,950	Repair Electric System	REPAIR PROCESS COMMENTS: THE 12 VOLT POWER PORT IN THE OPERATOR CAB NOT WORKING. CHECKED FUSES AND THEY WERE GOOD. REMOVED PANELING TO GET TO THE WIRING FOR THE POWER OUTLET AND FOUND THE WIRING TO BE DISCONNECTED. CONNECTED THE WIRING AND THE POWER OUTLET IS NOW WORKING. INSTALLED PANELING. Troubleshoot/repair power port not working in cab TROUBLESHOOT/REPAIR POWER PORT NOT WORKING IN CAB
Sep 22, 2020	Service	4,950	Remove & Install Bottom Guard	REPAIR PROCESS COMMENTS: Remove and install belly pans REMOVE AND INSTALL BELLY PANS

Sep 22, 2020	Service	4,950	Perform Pm 3	<ul> <li>*NOTICE* THE FOLLOWING DEFINITION IS A GENERAL STATEMENT AND MAY NOT COVER ALL THE CHECKS THAT PERTAIN TO THE MODEL YOU ARE WORKING ON. ALWAYS FOLLOW CATERPILLAR OPERATIONAL MAINTENANCE MANUAL FOR SPECIFIC INSTRUCTIONS FOR THE SERVICE YOU ARE PERFORMINGCHANGE ENGINE OIL AND FILTER - CHANGE TRANSMISSION OIL AND FILTER -CLEAN AND INSPECT MAGNETIC SCREEN -CHANGE HYDRAULIC FILTERS - OBTAIN SCHEDULED OIL SAMPLES - THE RESULTS OF THESE WILL BE SENT TO YOU UPON COMPLETION -LUBRICATE ALL GREASE FITTINGS -DRAIN WATER SEPARATOR -CHECK COOLANT CONDITION AND ADD INHIBITOR IF NECESSARY - CHECK ALL FLUID LEVELS -CLEAN ENGINE CRANKCASE BREATHER -CLEAN PRIMARY FUEL FILTER AND REPLACE SECONDARY -PERFORM VISUAL OPERATIONAL INSPECTION - CHANGE SWING DRIVE OIL (WHEN APPLICABLE) ************************************</li></ul>
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Sep 22, 2020	Service	4,950	Perform 5000 Service Hour Maint	CUSTOMER COMPLAINT: PERFORM 5000 HR SERVICE. REPAIR PROCESS COMMENTS: HELP WITH 5000 HR SERVICE. REMOVE HOOD FROM REAR PACK. REMOVE CEM FROM REAR PACK. REMOVE MOUNTS AND HARDWARE TO GAIN ACCESS TO THE VALVE COVER. TO #1 TDC AND CHECK VALVE CLEARANCE, INTAKE AND EXHAUST VALVES ARE OUT OF SPEC, LOOSE. ADJUST VALVE CLEARANCE TO SPEC. REINSTALL ENGINE BRAKE AND TORQUE MOUNTING HARDWARE TO SPEC. SET BRAKE CLEARANCE TO SPEC. REINSTALL VALVE COVER WITH A NEW SEAL. REINSTALL MOUNTS AND CEM. RUN UNIT AND CHECK FOR LEAKS. REINSTALL HOOD AND REPLACE MISSING AND DAMAGED HARDWARE AS NEEDED. REPAIR PROCESS COMMENTS: 4690-REMOVED CEM PACK FROM THE FRONT. INSTALLED REMAN PARTICULATE FILTER. INSTALLED NEW DEF INJECTOR AND SPARK PLUG. DRAINED COOLANT FROM REMOVE THE VALVE COVER. REMOVED VALVE COVER AND CHECKED VALVE LASH OF THE ENGINE AND THE ENGINE BRAKES. VALVES WERE OUT OF SPEC. ADJUSTED VALVES AS NEEDED TO SPEC. ADJUSTED ENGINE BRAKE VALVE LASH TO SPEC. INSTALLED VALVE COVER WITH NEW MACHINE AND NO LEAKS. WHILE ANOTHER TECHNICIAN REMOVED THE REAR CEM PACK AND ADJUSTED THE VALVES FOR THE REAR, I INSTALLED A NEW PARTICULATE FILTER, NEW DEF INJECTOR AND NEW SPARK PLUG.
Sep 22, 2020	Service	4,950	Replace Seat Belt	CUSTOMER COMPLAINT: REPLACE SEAT BELT. REPAIR PROCESS COMMENTS: SEAT BELT HAS EXPIRED. REPLACE SEAT BELT. Replace seat belt REPLACE SEAT BELT
Sep 22, 2020	Service	4,950	Perform When Required	REPAIR PROCESS COMMENTS: PERFORM RENTAL CHECKOUT ON MACHINE. CHECKED FLUIDS AND GREASED MACHINE.
Sep 22, 2020	Service	4,950	Install Decals	CUSTOMER COMPLAINT: INSTALL DECALS. REPLACE DAMAGED REFLECTORS. REPLACE DAMAGED DECAL ON DRAFT ARMS. REPAIR PROCESS COMMENTS: FRONT OF MACHINE DOES NOT HAVE RENTAL OR WAGNER STICKERS, INSTALLED WAGNER AND RENTAL STICKERS ON BOTH SIDES OF THE FRONT OF THE MACHINE. Install missing decals and install missing harwar INSTALL MISSING DECALS AND INSTALL MISSING HARWAR E ON REAR HOOD
Sep 22, 2020	Service	4,950	Install Cylinder Guard	CUSTOMER COMPLAINT: INSTALL CYLINDER GUARDS. REPAIR PROCESS COMMENTS: INSTALL MOUNTING HARDWARE AND MUD FLAPS TO GUARD THE BOWL CYLINDERS. Install bowl cylinder guards INSTALL BOWL CYLINDER GUARDS

Sep 22, 2020	Service	4,950	Repair Light(s)	CUSTOMER COMPLAINT: REPAIR LIGHTS. REPAIR PROCESS COMMENTS: HAZARD/TURN SIGNALS AND REAR MARKER LIGHTS ARE NOT WORKING. FOUND THE RESET ABLE CIRCUIT BREAKER HAS BEEN REPLACED WITH A FUSE, AND THE FUSE IS BURNED OUT. REPLACE CIRCUIT BREAKER AND CHECK THAT THE LIGHTS ARE WORKING. Repair cab interior light, and 4-ways/turn signals REPAIR CAB INTERIOR LIGHT, AND 4- WAYS/TURN SIGNALS NOT WORKING. SWITCH GUARD BROKE IN CAB
Sep 22, 2020	Service	4,950	Repair Hydraulic Hoses/lines	REPAIR PROCESS COMMENTS: THE TWO HOSES (3775779,3775780) OVER THE CUSHION HITCH ARE LEAKING. INSTALLED NEW HOSES AND TOPPED Repair hyd. leak in hitch area REPAIR HYD. LEAK IN HITCH AREA
Sep 22, 2020	Service	4,950	Wash Machine	REPAIR PROCESS COMMENTS: WASHED ALL OIL FROM MACHINE AFTER REPAIRS.
Sep 22, 2020	Service	4,950	Troubleshoot Engine Cooling System	CUSTOMER COMPLAINT: TROUBLE SHOOT REAR COOLING SYSTEM. REPAIR PROCESS COMMENTS: PRESSURE TEST REAR COOLING SYSTEM. FOUND THE COOLANT LINES GOING TO THE CEM LEAKING. REPLACE LINES AND TOP OFF COOLANT. Pressure test rear engine cooling system PRESSURE TEST REAR ENGINE COOLING SYSTEM
Sep 22, 2020	Service	4,950	Repair For Warranty Product Link System	CUSTOMER CONCERN WEDNESDAY, SEPTEMBER 9, 2020 8:17 AM - CAUSE OF FAILURE WEDNESDAY, SEPTEMBER 9, 2020 8:18 AM - TELEMATICS RADIOS WORLDWIDE WILL PHASE OUT OF 2G/3G COMMUNICATION THAT WILL OCCUR OVER THE NEXT 3 YEARS. DEVICES OPERATING IN THE 2G AND 3G RANGE WILL NO LONGER BE SUPPORTED OVER CELLULAR NETWORKS, RESULTING IN ASSETS NOT REPORTING IN VARIOUS USER INTERFACES. REPAIR COMMENTS WEDNESDAY, SEPTEMBER 9, 2020 8:18 AM - CONNECTED TO THE MACHINE USING ET AND IT WITH A PL542V2 (4G) PART NUMBER 581-8919. SET PRODUCT ID TO MACHINE SERIAL NUMBER, SYNCHRONIZED HOUR METERS, AND DOWNLOADED ANOTHER PSR ACCORDNG TO PS46643.
Sep 22, 2020	Service	4,950	Troubleshoot Engine Cooling System	REPAIR PROCESS COMMENTS: PRESSURE TEST FRONT COOLING SYSTEM AND FOUND SEVERAL LEAKS. THE HOSE ON THE BOTTOM OF THE COOLING RESERVOIR WAS LEAKING, TIGHTENED CLAMP AND STOPPED LEAK. ANOTHER HOSE WAS LEAKING AT THE CLAMP, CLAMP COULD NOT BE TIGHTENED INSTALLED NEW CLAMP AND STOPPED LEAK. THE 2 HOSES GOING TO THE CEM PACK WERE ALSO CRACKED, INSTALLED NEW HOSES. Pressure test front engine cooling system PRESSURE TEST FRONT ENGINE COOLING SYSTEM REPLACE CEM COOLANT HOSES

Sep 22, 2020	Service	4,950	Troubleshoot Eng Electronic Cont Sys	REPAIR PROCESS COMMENTS: MACHINE HAS 255 OCCUPANCIES OF EVENT CODE E716-1. RAN MACHINE AND NEVER SAW THE CODE ACTIVE BUT WAS LOGGING IT A LOT. WENT THROUGH T/S PROCEDURE. HOOKED UP ET AND MY PARK BRAKE PRESSURE WAS 1350 AND MY MANUAL GAUGE WAS READING 1250, I HAD 2 PRESSURE SENSOR BECAUSE THE T/S PROCEDURE SAID IF THERE WAS A DIFFERENCE BETWEEN THE MANUAL GAUGE AND ET PRESSURE THAN REPLACE SENSOR. THE PARK BRAKE PRESSURE WAS ALSO TOO HIGH ADJUSTED PRESSURE BACK DOWN TO SPEC. RAN MACHINE AND CODE WAS STILL LOGGING BUT NEVER BECAME ACTIVE. REMOVED BELLY PANS TO INSPECT WIRING. FOUND THE HARNESS GOING TO THE PARK BRAKE SENSOR TO BE SPLICED AND THE SPLICES WERE COMING APART. INSTALLED NEW HARNESS FOE THE PARK BRAKE SENSOR. RAN MACHINE AND NEVER SEEN THE CODE LOGGED AGAIN. Troubleshoot park brake codes TROUBLESHOOT PARK BRAKE CODES
Sep 22, 2020	Service	4,950	Clean Frame	REPAIR PROCESS COMMENTS: GRIND OFF SHARPE EDGES ON MACHINE. Remove thumbnails REMOVE THUMBNAILS
Sep 22, 2020	Service	4,950	Inspect Machine	REPAIR PROCESS COMMENTS: INSPECT MACHINE FOR DAMAGE. CHECKED MACHINE OPERATION AND CHECKED MACHINE MAINTANCE RECORDS FOR SERVICE. ADVISED ON REPAIRS. Inspect for damages incurred while on demo and INSPECT FOR DAMAGES INCURRED WHILE ON DEMO AND ADVISE. CHECK OPERATION, MAKE SURE MACHINE IS RENTAL READY.
May 12, 2020	Service	4,909	Repair Ejector Carrier Roller	CUSTOMER COMPLAINT: BOTTOM LEFT ROLLER FELL OFF. CAUSE OF FAILURE: ROLLER BEARINGS FAILED. RESULTANT DAMAGE: BY THE BEARINGS FAILING THAT ALLOWED THE ROLLER TO COME OFF THE SHAFT. REPAIR PROCESS COMMENTS: REMOVE PINCH BOLT FROM FRAME THAT CLAMPS ROLLER IN PLACE. LUBRICATE SHAFT TO HELP WITH REMOVAL. SPREAD THE SPLIT OPEN FURTHER, USE AIR HAMMER TO DRIVE OUT OLD SHAFT. GET THE NEW SHAFT STARTED IN PLACE. USE CRANE TO LIFT EJECTOR IN ORDER TO HAVE ENOUGH CLEARANCE TO SLIDE NEW ROLLER INTO PLACE. ONCE IN PLACE, LOWER EJECTOR. REINSTALL PINCH BOLT AND TIGHTEN DOWN.
May 12, 2020	Service	4,909	Travel To/from Work Area	
May 12, 2020	Service	4,909	Travel To/from Work Area	

May 12, 2020	Service	4,909	Repair Ejector Carrier Roller	CUSTOMER COMPLAINT: BOTTOM LEFT ROLLER FELL OFF. CAUSE OF FAILURE: ROLLER BEARINGS FAILED. RESULTANT DAMAGE: BY THE BEARINGS FAILING THAT ALLOWED THE ROLLER TO COME OFF THE SHAFT. REPAIR PROCESS COMMENTS: REMOVE PINCH BOLT FROM FRAME THAT CLAMPS ROLLER IN PLACE. LUBRICATE SHAFT TO HELP WITH REMOVAL. SPREAD THE SPLIT OPEN FURTHER, USE AIR HAMMER TO DRIVE OUT OLD SHAFT. GET THE NEW SHAFT STARTED IN PLACE. USE CRANE TO LIFT EJECTOR IN ORDER TO HAVE ENOUGH CLEARANCE TO SLIDE NEW ROLLER INTO PLACE. ONCE IN PLACE, LOWER EJECTOR. REINSTALL PINCH BOLT AND TIGHTEN DOWN.
Apr 06, 2020	Parts			
Apr 02, 2020	Service	4,732	Travel To/from Work Area	
Apr 02, 2020	Service	4,732	Troubleshoot Engine	CUSTOMER COMPLAINT: UNIT WONT REGEN REPAIR PROCESS COMMENTS: 4-2-2020 9402 TALKED WITH OPERATOR UNIT WOULD NOT REGEN 3 DAYS AGO THE NEXT DAY IT REGENED ALL DAY LONG USED A FULL TANK OF DEF TODAY UNIT IS RUNNING FINE ONLY CODE IN UNIT FOR AFTER TREATMENT IS E993-2 DEF ACTIVE REGENERATION INHIBIT DUE TO INHIBIT SWITCH ONLY ONE TIME AT 4725 TAKE PRODUCT STATUS REPORT RETURN UNIT TO SERVICE Wont regen WONT REGEN
Mar 29, 2020	Service	4,677	Load/unload Machine	
Mar 29, 2020	Service	4,677	Inspect Machine	
Mar 29, 2020	Service	4,677	Rental Steam Clean Machine	
Mar 29, 2020	Service	4,677	Repair For Warranty Accessory Drive	CUSTOMER COMPLAINT: PERFORM SL PS46472 DATE 11/05/2019 REPAIR PROCESS COMMENTS: SERVICE LETTER. Perform sl ps46472 dated 11/05/2019 PERFORM SL PS46472 DATED 11/05/2019
Mar 29, 2020	Service	4,677	Perform When Required	CUSTOMER COMPLAINT: PERFORM INDICATED MAINT. REPAIR PROCESS COMMENTS: PERFORMED RENTAL INSPECTION ON MACHINE. CHECKED ALL FLUID LEVELS. ALL FLUID LEVELS GOOD. DID VISUAL AND OPERATIONAL CHECKS. ALL CHECKS GOOD. GREASED MACHINE.
Mar 29, 2020	Service	4,677	Repair Brake Accumulator	REPAIR BRAKE ACCUMULATOR REPAIR PROCESS COMMENTS: CHARGED BRAKE ACCUMULATOR WITH NITROGEN TO PROPER SPEC. Troubleshoot brake acc. code TROUBLESHOOT BRAKE ACC. CODE

Mar 29, 2020	Service	4,677	Repair Suspension Seat	Perform sl ps46141 dated 03/05/2019 MACHINE IS OUT OF S.L. AGE LIMIT OF 0-48 MONTHS
Mar 29, 2020	Service	4,677	Inspect Machine	
Mar 29, 2020	Service	4,677	Inspect Do Not Use - After Servic	
Mar 29, 2020	Service	4,677	Troubleshoot Cab Air Pressurizer	CUSTOMER COMPLAINT: FOUND THAT THE HEATER A/C BLOWER WAS NOT WORKING ON MED HIGH AND HIGH SPEED. REPAIR PROCESS COMMENTS: TROUBLE SHOT HEATER BLOWER MOTOR. FOUND THAT THE FUSE WAS BLOWN TRIED TO PUT NEW FUSE IN. FOUND THAT EVERY TIME NEW FUSS WAS INSTALLED AND THE START KEY WAS TURNED FUSS WOULD BLOW. FOUND THAT A RESET ABLE CIRCUIT BREAKER IS WHAT WAS NEED TO BE INSTALLED THERE. INSTALLED CORRECT CIRCUIT BREAKER. OPERATIONAL CHECKED GOOD. OTHER CIRCUITS IN THE FUSS PANEL HAD REGULAR MINI FUSSES WHERE THEY WERE NEED TO BE CIRCUIT BREAKERS. REPLACE THOSE ALSO. CHECKED GOOD. Troubleshoot cab heat/air blower motor TROUBLESHOOT CAB HEAT/AIR BLOWER MOTOR
Mar 29, 2020	Service	4,677	Repair For Warranty Accessory Drive	CUSTOMER COMPLAINT: PERFORM SL PS46472 DATE 11/05/2019 REPAIR PROCESS COMMENTS: SERVICE LETTER. Perform sl ps46472 dated 11/05/2019 PERFORM SL PS46472 DATED 11/05/2019
Mar 29, 2020	Service	4,677	Rental Steam Clean Machine	
Mar 29, 2020	Service	4,677	Load/unload Machine	

Mar 29, 2020	Service	4,677	Perform Pm 1	*NOTICE* THE FOLLOWING DEFINITION IS A GENERAL STATEMENT AND MAY NOT COVER ALL THE CHECKS THAT PERTAIN TO THE MODEL YOU ARE WORKING ON. ALWAYS FOLLOW CATERPILLAR OPERATIONAL MAINTENANCE MANUAL FOR SPECIFIC INSTRUCTIONS FOR THE SERVICE YOU ARE PERFORMINGCHANGE ENGINE OIL AND FILTER - OBTAIN SCHEDULED OIL SAMPLES - THE RESULTS OF THESE WILL BE SENT TO YOU UPON COMPLETION -CLEAN AIR INTAKE PRE-CLEANER -LUBRICATE ALL GREASE FITTINGS - DRAIN WATER SEPARATOR -CHECK COOLANT CONDITION AND ADD INHIBITOR IF NECESSARY -CHECK ALL FLUID LEVELS -PERFORM VISUAL OPERATIONAL INSPECTION - ADJUST OSCILLATING HITCH (WHEN APPLICABLE) ************************************
Jan 02, 2020	Service	4,427	Cat Care Kit Pm 2	Send cck for pm 2 SEND CCK FOR PM 2 TO WELLS TRUCKING LLC 2419 1ST AVE GREELEY, CO 80631
Nov 25, 2019	Parts			
Nov 25, 2019	Service	4,426	Travel To/from Work Area	

Nov 25, 2019

4,426

Service

Replace Starting System CUSTOMER COMPLAINT: REPAIR PROCESS COMMENTS: 9-25-19 -DROVE TO DEALER TO GET PARTS -ARRIVED AT JOBSITE AND SPOKE TO AN OPERATOR ABOUT WHAT IS HAPPENING. HE SAID THE REAR ENGINE WONT ON THE FLYWHEEL. -CONFIRMED CUSTOMER COMPLAINT -REMOVED STARTER AND INSPECTED FLYWHEEL AND STARTER PINION. BOTH LOOKED GOOD. - INSTALLED NEW STARTER, THE SAME PROBLEM OCCURRED. -DID NOT HAVE A CHANCE TO TROUBLESHOOT FURTHER, WILL CONTINUE TOMORROW AFTERNOON CUSTOMER COMPLAINT: REPLACE REAR ENGINE STARTER REPAIR PROCESS COMMENTS: 9-26-19 - STOPPED BY HERE ON MY WAY BACK FROM ANOTHER JOB TO PULL A PSR -CUSTOMER STATED THAT THE REAR ENGINE OVERHEATED BADLY AND THEY HAD TO FILL IT WITH COOLANT -AFTER THIS OVERHEAT, THE STARTER ISSUES HAPPENED -PSR SHOWS OVERHEAT EVENTS AND HIGH EGR EVENTS -WILL RETURN IN THE MORNING TO FURTHER TROUBLESHOOT REAR ENGINE REPLACE REAR ENGINE STARTER CAUSE OF FAILURE: IT IS UNKNOWN WHAT THE ORIGINAL FAILURE WAS. OPERATOR STATED A FAN BELT BROKE WHICH CAUSED ENGINE OVERHEATING. HOWEVER IT IS LIKELY THE NRS COOLER HAS FAILED. I'M NOT SURE WHICH EVENT HAPPENED FIRST RESULTANT DAMAGE: ENGINE HYDRO LOCKED. POSSIBLE INTERNAL ENGINE DAMAGE. REPAIR PROCESS COMMENTS: 9-27-19 OPERATOR AGAIN. HE STATED THAT THE REAR ENGINE FAN BELT BROKE WHICH CAUSED THE OVERHEAT EVENT. THE STORY ON THIS MACHINE HAS CHANGED MULTIPLE TIMES. IT WAS STATED THAT THE REAR ENGINE WAS RUNNING OUT OF COOLANT AND THEY HAD TO REFILL THE -LOOKED OVER THE PS AGAIN TO STUDY THE EVENT CODES. FOUND AN ENGINE STALL CONDITION EVENT LOGGED AND MANY HIGH SEVERITY OVERHEAT EVENTS ALONG WITH MANY HIGH ER TEMPERATURE EVENTS. -REMOVED THE REAR ENGINE STARTER AND MADE A MARK ON THE FLYWHEEL SO I COULD BAR THE ENGINE OVER AND CHECK FOR FLYWHEEL DAMAGE. -I WAS ABLE TO TURN THE ENGINE OVER ABOUT 60 CYLINDER WAS FILLED WITH COOLANT AND THE ENGINE WAS HYDRO LOCKED. I BACKED THE ENGINE OFF AND TRIED TO TURN IT OVER AGAIN BUT IT STOPPED HARD AT THE SAME LOCATION. AT THIS TIME THE OIL LEVEL IS NOT OVERFILLED BUT I BELIEVE THE ENGINE IS DAMAGE FROM RUNNING IT WITH A FAILED MRS COOLER AND TRYING TO START THE HYDRO LOCKED ENGINE. CYLINDER WALLS COULD ALSO BE SCORED FROM THE BEING OVERHEATED SO MANY TIMES. THE MRS COOLER THE ENGINE. -CALLED MY MANAGER AND HE DECIDED TO SEND THE MACHINE INTO THE SHOP FOR FURTHER REPAIR. Starter needs replaced STARTER NEEDS REPLACED

Oct 30, 2019	Service	4,429	Engine	CUSTOMER CONCERN TECH ID: 5677 PERFORMED OIL AND FUEL Make sure both engines are current on 500 hr MAKE SURE BOTH ENGINES ARE CURRENT ON 500 HR SERVICE. IF WE DO NOT HAVE AIR FILTERS ADVISE JOE AND HE WILL SEND A LUBE TECH TO CHANGE THOSE.
Oct 30, 2019	Service	4,429	Inspect Rental Mach F/rtr Machine	CUSTOMER CONCERN TECH ID: 5677 PERFORMED PRE RENTAL INSPECTION. EVERYTHING LOOKED GOOD BEFORE RENTAL. Check machine over before return to customer CHECK MACHINE OVER BEFORE RETURN TO CUSTOMER NOTE ANY ISSUES AND ADVISE JOE FOR REPAIR AUTH CHECK FOR AND CLEAR ANY CODES FOUND
Oct 30, 2019	Service	4,429	Engine	CUSTOMER CONCERN TECH ID: 5677 PULLED PLUG ON TOP OF THE BELL HOUSING TO CHECK IF ENGINE TURNED OVER. ENGINE DID TURN OVER GOOD. REMOVED OIL FILTER AND CUT OPEN TO CHECK FOR DEBRIS. DID NOT FIND ANYTHING OUT OF THE ORDINARY. WENT TO PULL AND OIL SAMPLE AND FOUND ALOT OF COOLANT IN THE OIL. PULLED THE EXHAUST PIPE OFF THE TURBO AND FOUND EVIDENCE OF COOLANT IN THE EXHAUST. DETERMINED THAT THE NRS COOLER HAD FAILED. WENT FORWARD WITH REPLACING THE COOLER. Engine oil pan full of coolant determine cause ENGINE OIL PAN FULL OF COOLANT DETERMINE CAUSE
Oct 30, 2019	Service	4,429	Replace Electric Starting Motor	CUSTOMER CONCERN TECH ID: 5677 - WAS INFORMED BY CUSTOMER THAT THE STARTER WAS BAD. ROMOVED BRACKET ABOVE TO ACCESS STARTER. REMOVED WIRES FROM STARTER. REMOVED STARTER BOLTS. DROPPED STARTER OUT THROUGHT THE BOTTOM. WENT TO INSTALLED NEW STARTER AND FOUND THEY DIDNT HAVE A NEW GASKET FOR INSTALLED NEW STARTER WITH NEW GASKET. STARTER OPERATION. ALL WORKED GOOD. Replace starter found in segment 20 REPLACE STARTER FOUND IN SEGMENT 20 CUSTOMER SUPPLIED STARTER
Oct 30, 2019	Service	4,429	Coolant Hose/lines	CUSTOMER CONCERN TECH ID: 5677 CLEANED OFF COOLANT FORM ENGINE. TESTED RAN ENGINE AND LOOKED FOR LEAKS. FOUND LEAK AT THE HOSE ON TOP OF THE COOLER. FOUND HOSE CLAMP ON THE HOSE NOT TIGHTING UP. GOT A NEW HOSE CLAMP AND INSTALLED. TEST RAN ENGINE AND CHECKED FOR LEAKS. NO LEAKS FOUND. Find and repair external coolant leak FIND AND REPAIR EXTERNAL COOLANT LEAK
Oct 30, 2019	Service	4,429	Product Status Report	CUSTOMER CONCERN TECH ID: 5677 THURSDAY, OCTOBER 31, 2019 2:45 PM - TECH ID: 5677 HOOKED UP LAPTOP AND PULLED A PRODUCT STATUS REPORT.
Oct 30, 2019	Service	4,429	Clean Machine	CUSTOMER CONCERN TECH ID: 5677 WASHED MACHINE SEVERAL TIME. DID A FINAL WASH AND CLEANING BEFORE RETURNING TO CUSTOMER. CLEANED THE CAB. CLEANED ALL CAB WINDOWS.

Oct 30, 2019	Service	4,429	Replace Cgi Cooler	CUSTOMER CONCERN TECH ID: 5677 PULLED MACHINE INTO SHOP. CHECK REAR ENGINE FOR FAILURE. TRYED TO TURN ENGINE OVE RWITH THE STARTER AND IT DID NOTHING. TESTED STARTER WIRES FOR POWER. FOUND GOOD FOUND GOOD VOLTAGE AT THE START TERMINAL OF THE STARTER. REMOVED STARTER TO TRY TO TURN ENGINE THE TOP OF THE FLYWHEEL HOUSING AND WAS ABLE TO TURN ENGINE. FOUND THAT THE ENGINE WAS STILL TURNING OVER GOOD. PULLED AN SOS FOR ENGINE OIL. FOUND THE OIL PAN TO BE FULL OF COOLANT. REMOVED HOOD AND HAND RAILS. WENT TO THE NRS COOLER. PULLED CLAMPS OF THE EXHAUST SIDE AND FOUND THERE TO BE COOLANT IN THE EXHAUST SIDE. SO DETERMINED THAT THE COOLER WAS BAD. ORDERED COOLER AND OTHER NEEDED PARTS FOR REASSEMBLY. HAD TO REMOVE THE EXHAUST MANIFOLD MANIFOLD GASKETS. PUT THE COOLER IN PLACE AND BOLTED IT DOWN. TIGHTENED ALL EXHAUST MANIFOLD NUTS. INSTALLED BOTH ENDS OF THE COOLER TO EXHAUST. INSTALLED SMALL COOLANT HOSE ON THE TOP OF COOLER. FILLED WITH COOLANT AND OIL. STARTED ENGINE AND LET RUN FOR A WHILE. CHECKED FOR LEAKS. FOUND A SMALL COOLANT LEAKFROM COOLER. THOUGHT IT WAS RESIDUAL. TOOK MACHINE OUT AND DROVE AROUND AND PULLED BACK IN. THE NEXT MORNING IT HAD A BIG PUDDLE COOLANT HOSE ON TOP OF THE COOLER TID NOT TIGHTEN UP. REMOVED HOSE AND INSTALLED A NEW CLAMP. CHECKED FOR LEAKS AGAIN AFTER STARTING. NO LEAKS FOUND. INSTALLED HOOD AND HAND RAILS. TEST RAN AGAIN AND CHECKED FOR LEAKS NONE FOUND. REPIACE CGI COOLER FOUND INSTALLED HOOD AND HAND RAILS. TEST RAN AGAIN AND CHECKED FOR LEAKS NONE FOUND. REPIACE CGI COOLER FOUND IN SEGMENT 20 REPLACE CGI COOLER FOUND IN SEGMENT 20 TIME INCLUDES 2 FLUSHES OF ENGINE TO REMOVE COOLANT
Oct 02, 2019	Service	4,356	Travel To/from Work Area	REPAIR PROCESS COMMENTS: CUSHION HITCH HUNTS. PROBABLE INTERNAL LEAKAGE IN CYLINDER.
Oct 02, 2019	Service	4,356	Troubleshoot Air Conditioner	REPAIR PROCESS COMMENTS: FOUND FAN MOTOR NOT WORKING. FOUND FUSE MISSING. USED LIGHT CIRCUIT BREAKER TO CHECK CIRCUIT. FOUND POWER AT RELAY. HAVE POWER AT CONNECTION TO MOTOR. MOTOR HAS CONTINUITY. ORDERED MOTOR, FUSE BOX BREAKER, AND THERMAL FUSES. 7-17-19 - REMOVE PANELS - RECOVER A/C SYSTEM REPAIR PROCESS COMMENTS: 7-18-19 - REMOVE HVAC SYSTEM FROM THE MACHINE - DISASSEMBLE HVAC - REPLACE BLOWER MOTOR AND RESISTOR - ASSEMBLE HVAC - CHARGE A/C SYSTEM TO 4 LBS - TEST MACHINE AND SYSTEM IS WORKING AND COOLING NORMAL - INSTALL ALL GUARDS AND STEPS - MACHINE IS READY
Oct 02, 2019	Service	4,356	Troubleshoot Cushion Hitch	

Sep 24, 2019

Parts

Sep 22, 2019	Service	4,356	Travel To/from Work Area	REPAIR PROCESS COMMENTS: CUSHION HITCH HUNTS. PROBABLE INTERNAL LEAKAGE IN CYLINDER.
Sep 22, 2019	Service	4,356	Troubleshoot Air Conditioner	REPAIR PROCESS COMMENTS: FOUND FAN MOTOR NOT WORKING. FOUND FUSE MISSING. USED LIGHT CIRCUIT BREAKER TO CHECK CIRCUIT. FOUND POWER AT RELAY. HAVE POWER AT CONNECTION TO MOTOR. MOTOR HAS CONTINUITY. ORDERED MOTOR, FUSE BOX BREAKER, AND THERMAL FUSES. 7-17-19 - REMOVE PANELS - RECOVER A/C SYSTEM REPAIR PROCESS COMMENTS: 7-18-19 - REMOVE HVAC SYSTEM FROM THE MACHINE - DISASSEMBLE HVAC - REPLACE BLOWER MOTOR AND RESISTOR - ASSEMBLE HVAC - CHARGE A/C SYSTEM TO 4 LBS - TEST MACHINE AND SYSTEM IS WORKING AND COOLING NORMAL - INSTALL ALL GUARDS AND STEPS - MACHINE IS READY
Sep 22, 2019	Service	4,356	Troubleshoot Cushion Hitch	
Aug 30, 2019	Service	4,390	Travel To/from Work Area	REPAIR PROCESS COMMENTS: THE ADDRESS I RECIEVED WAS NOT THE CORRECT LOCATION FOR THE MACHINE.
Aug 30, 2019	Service	4,390	Troubleshoot Machine	CUSTOMER COMPLAINT: T/S CODES ARRIVED AT THE MACHINE AND FOUND THAT AN ACTIVE CODE FOR THE SEAT. THE SEAT WAS ALL THE WAY ON THE FLOOR AND WOULDN'T AIR UP. I CHECKED THE FUSES AND FOUND THAT THERE WASN'T ONE. SO PUT A NEW FUSE IN AND THE SEAT CODES WENT AWAY. THE ON BOTH ENGINES BY DOING AN AFTERTREATMENT FUNCIONAL TEST. THEY BOTH WORKED FINE. DURING MY WALK AROUND I FOUND THE CAP FOR THE REAR DIFF WAS OFF AND LAYING ON THE LINES NEXT TO THE TUBE. I INSTALLED THE FILL CAP AND CHECKED THE OIL LEVEL AND IT WAS OK. T/S CODES
Aug 29, 2019	Service	4,366	Travel To/from Work Area	* FUEL ONLY * NO LABOR
Aug 29, 2019	Service	4,366	Seat Assembly	REPAIR PROCESS COMMENTS: FOUND HARNESS ON HITCH FOR COUSHION HITCH WAS BARE. REPLACED HARNESS. FROUND SEAT HEARNESS DAMAGED. REPAIRED SEAT HARNESS. SEAT THERMISTER CODE CLEARED AFTER FIXING HARNESS. Codes CODES

Aug 29, 2019	Service	4,366	Engine	REPAIR PROCESS COMMENTS: ENGINE. PERFORMED TROUBLSHOOTING TREE FOR FAULTS. FOUND NOTHING WRONG WITH WIRING OR RELAYS. DID NOT HAVE POWER TO HEATER RELAYS FORM ECM. REPLACED DEF ECM. COULD NOT GET INDUCMENT CODES TO CLEAR BECAUSE MACHINE WAS ABOVE 80% SOOT LOAD AND COULD NOT DO VERIFICATION TEST. COULD NOT PERFORM MANUAL REGEN BECAUSE OF ACTIVE EVENTS. UPDATED AFTERTREATMENT AND ENGINE SOFTWARE AS IT HAD NOTES FOR CODE ROBUSTNESS. AFTER CLEARING CODES WITH FACTORY PASSWORDS REGEN WAS COMPLETED AND A VERIFICATION TEST WAS COMPLETED. Codes CODES
Aug 11, 2019	Service	4,260	Repair Differential	REPAIR PROCESS COMMENTS: TROUBLESHOOT MACHINE FOR TRANSFERRING OIL FROM HYDRAULIC SYSTEM TO DIFFERENTIAL. REMOVED BELLY PANS. PRESSURE TEST THE DIFF LOCK WITH HYDRAULIC PRESSURE AND WILL NOT HOLD PRESSURE. TRANSMISSION NEED TO BE REMOVED TO REPAIR DIFF LOCK. DRAINED HYDRAULIC OIL INTO A SUITABLE CONTAINER TO BE REUSED. DRAINED TRANSMISSION OIL INTO A SUITABLE REMOVED TRANS GUARD. REMOVED TRANSMISSION. REMOVED DIFF LOCK PISTON FROM TRANSMISSION. DISASSEMBLED DIFF LOCK PISTON. METAL WAS IN THE DIFF LOCK PISTON SEAL AND SEALS CUT. METAL ALSO SCORED THE CYLINDER HOUSING OF THE DIFF LOCK. THE CYLINDER WAS ALSO NOT THE MOST UP TO DATE CYLINDER PART (#494-0665). DIFF LOCK JAWS GAULED DIFF LOCK PISTON WITH NEW PISTON SEALS AND NEW UPDATED CYLINDER (#560-0923). ALSO INSTALLED SCREEN (489-8901) TO CATCH MATERIAL COMING OUT OF THE PISTON FROM THE JAWS. PRESSURE TESTED DIFF LOCK PISTON WITH HYDRAULIC PRESSURE AND DOES NOT LEAK. INSTALLED NEW JAWS. INSTALLED PISTON ONTO TRANSMISSION AND TORQUED TO SPEC. CLEANED OUT DIFFERENTIAL OIL HOUSING AND TRANSMISSION HOUSING. INSTALLED TRANSMISSION WITH NEW MOUNTING SEALS. INSTALLED TRANSMISSION WITH NEW MOUNTING SEALS. INSTALLED TRANSMISSION WITH NEW MOUNTING SEALS. INSTALLED DIFFERENTIAL AND FINAL WITH NEW OIL. RAN MACHINE AND ADJUSTED ALL FLUIDS AS NEEDED. INSTALLED BRAKE/FAN MANIFOLD. USED KIDNEY FILTER PUMP TO FILL UP REUSED HYDRAULIC AND TRANSMISSION FLUID. FILLED DIFFERENTIAL AND FINAL WITH NEW OIL. RAN MACHINE AND ADJUSTED ALL FLUIDS AS NEEDED. INSTALLED BELLY PANS AND TRANSMISSION GUARD. TROUBLESHOOT/REPAIR TRANSFER OF OIL IN POWERTRAIN
Aug 11, 2019	Service	4,260	Repair For Warranty Drive Shaft	REPAIR PROCESS COMMENTS: PERFORM SERVICE LETTER " PS53992". REMOVE BRAKE/FAN MANIFOLD. REMOVE TORQUE LIMITER DRIVE. ASSEMBLED TORQUE DRIVE NEW UPDATED PARTS. INSTALLED NEW TORQUE DRIVE. INSTALLED NEW LINES THE TORQUE DRIVE. INSTALLED BRAKE/FAN MANIFOLD. Perform sl ps53992 dated 02/20/2019 PERFORM SL PS53992 DATED 02/20/2019

Aug 11, 2019	Service	4,260	Troubleshoot Seat Switch	REPAIR PROCESS COMMENTS: SEAT HAS ACTIVE CODE FOR THE SHOCK ABSORBER. T/S THE SHOCK ABSORBER AND FOUND THE SENSOR ON THE ABSORBER TO BE BAD CANNOT BUY JUST THE SENSOR. REMOVED SEAT FROM CAB. INSTALLED NEW SHOCK ABSORBER. INSTALLED SEAT BACK IN THE CAB AND ALL ACTIVE CODES FOR THE SEAT ARE GONE. T/s seat codes T/S SEAT CODES
Aug 11, 2019	Service	4,260	Remove & Install Push Block/bail	REPAIR PROCESS COMMENTS: REPAIRED. PAINTED REBUILT BAIL. INSTALLED BAIL ONTO MACHINE. Replace bent push bail REPLACE BENT PUSH BAIL
Aug 11, 2019	9 Service	4,260	Troubleshoot Coolant Hose/lines	REPAIR PROCESS COMMENTS: FRONT COOLING SYSTEM LOW OF COOLANT. PRESSURE TEST COOLING SYSTEM AND IS LOSING PRESSURE. TWO HOSE CLAMPS WERE LOSE AND LOSING COOLANT TIGHTENED CLAMPS AND LEAKS WENT AWAY. COOLING SYSTEM STILL LOSING A LITTLE PRESSURE. REMOVED THE EXHAUST LINES OFF BOTH SIDES OF THE NRS COOLER AND DID NOT SEE ANY COOLANT. T/s coolant low front engine T/S COOLANT LOW FRONT ENGINE
Aug 11, 2019	Service	4,260	Repair Clean Emissions Module	MACHINE CLEAN EMISSIONS MODULE WILL NOT REGEN AND HAS ACTIVE CODE FOR LOW FUEL PRESSURE ARD HEAD. HOOKED ET TO MACHINE AND SOOT LOAD IS AT 100% CLEARED ACTIVE LOW FUEL PRESSURE CODE. ONCE I CLEARED THE CODE I WAS ABLE TO RUN A MANUAL REGENERATION ON THE EMISSION MODULE. THE SOOT LOAD LEVEL IS NOW DOWN AT 0%. RAN THE MACHINE FOR ITSELF AND REGENERATION SYSTEM IS NOW WORKING HOW ITS SUPPOSED TO. Troubleshoot engine codes TROUBLESHOOT ENGINE CODES
Aug 11, 2019	Service	4,260	Remove Fasteners, Conn & Hardwr	REPAIR PROCESS COMMENTS: THERE WERE 2 BROKEN BOLTS IN THE FENDER FRAME. DRILLED OUT BOLTS AND REMOVED. THERE WAS ALSO BRACKET BROKEN FOR THE BAIL CYLINDER LINES. INSTALLED NEW BRACKET FOR THE LINES. Remove broken bolts and repair broken brackets REMOVE BROKEN BOLTS AND REPAIR BROKEN BRACKETS ON MACHINE
Aug 11, 2019	Service	4,260	Repair Light(s)	REPAIR PROCESS COMMENTS: SEVERAL LIGHT NOT WORKING. REPLACE LIGHTS WITH NEW LIGHT BULB AND ALL LIGHTS ARE WORKING. Several lights inop SEVERAL LIGHTS INOP
Aug 11, 2019	Service	4,260	Adjust Mirror	REPAIR PROCESS COMMENTS: MIRROR BOLTED IN WRONG SPOT. REMOVED MIRROR AND BOLTED IN CORRECT POSITION. Correct mirror placement

Aug 11, 2019	Service	4,260	Troubleshoot Wheel Speed Sensor	REPAIR PROCESS COMMENTS: LEFT HAND WHEEL SPEED SENSOR THROWING AN ACTIVE CODE. T/S CODE AND FOUND A WIRE TO BE PULLED OUT OF CONNECTOR GOING TO SPEED SENSOR. INSTALLED NEW CONNECTOR AND CODE WENT AWAY. Left wheel sensor codes LEFT WHEEL SENSOR CODES
Aug 11, 2019	Service	4,260	Repair For Warranty Drive Shaft	REPAIR PROCESS COMMENTS: PERFORM SERVICE LETTER " PS53992". REMOVE BRAKE/FAN MANIFOLD. REMOVE TORQUE LIMITER DRIVE. ASSEMBLED TORQUE DRIVE NEW UPDATED PARTS. INSTALLED NEW TORQUE DRIVE. INSTALLED NEW LINES THE TORQUE DRIVE. INSTALLED BRAKE/FAN MANIFOLD. Perform sl ps53992 dated 02/20/2019 PERFORM SL PS53992 DATED 02/20/2019
Aug 11, 2019	Service	4,260	Repair Differential	REPAIR PROCESS COMMENTS: TROUBLESHOOT MACHINE FOR TRANSFERRING OIL FROM HYDRAULIC SYSTEM TO DIFFERENTIAL. REMOVED BELLY PANS. PRESSURE TEST THE DIFF LOCK WITH HYDRAULIC PRESSURE AND WILL NOT HOLD PRESSURE. TRANSMISSION NEED TO BE REMOVED TO REPAIR DIFF LOCK. DRAINED HYDRAULIC OIL INTO A SUITABLE CONTAINER TO BE REUSED. DRAINED TRANSMISSION OIL INTO A SUITABLE REMOVED TRANS GUARD. REMOVED TRANSMISSION. REMOVED DIFF LOCK PISTON FROM TRANSMISSION. DISASSEMBLED DIFF LOCK PISTON. METAL WAS IN THE DIFF LOCK PISTON SEAL AND SEALS CUT. METAL ALSO SCORED THE CYLINDER HOUSING OF THE DIFF LOCK. THE CYLINDER WAS ALSO NOT THE MOST UP TO DATE CYLINDER PART (#494-0665). DIFF LOCK JAWS GAULED DIFF LOCK PISTON WITH NEW PISTON SEALS AND NEW UPDATED CYLINDER (#560-0923). ALSO INSTALLED SCREEN (489-8901) TO CATCH MATERIAL COMING OUT OF THE PISTON FROM THE JAWS. PRESSURE TESTED DIFF LOCK PISTON WITH HYDRAULIC PRESSURE AND DOES NOT LEAK. INSTALLED NEW JAWS. INSTALLED PISTON ONTO TRANSMISSION AND TORQUED TO SPEC. CLEANED OUT DIFFERENTIAL OIL HOUSING AND TRANSMISSION HOUSING. INSTALLED TRANSMISSION WITH NEW MOUNTING SEALS. INSTALLED TRANSMISSION WITH NEW MOUNTING SEALS. INSTALLED TRANSMISSION WITH NEW MOUNTING SEALS. INSTALLED NEW JAWS. INSTALLED PISTON ONTO TRANSMISSION AND TORQUED TO SPEC. CLEANED OUT DIFFERENTIAL OIL HOUSING AND TRANSMISSION HOUSING. INSTALLED TRANSMISSION WITH NEW MOUNTING SEALS. INSTALLED BRAKE/FAN MANIFOLD. USED KIDNEY FILTER PUMP TO FILL UP REUSED HYDRAULIC AND TRANSMISSION FLUID. FILLED DIFFERENTIAL AND FINAL WITH NEW OIL. RAN MACHINE AND ADJUSTED ALL FLUIDS AS NEEDED. INSTALLED BELLY PANS AND TRANSMISSION GUARD. TROUBLESHOOT/REPAIR TRANSFER OF OIL IN POWERTRAIN
Aug 11, 2019	Service	4,260	Remove & Install Bowl Lift Cylinder	REPAIR PROCESS COMMENTS: BOTH BOWL LIFT CYLINDER LEAKING. REMOVED BOTH BOWL BOWL LIFT CYLINDERS. Remove replace leaking bowl cylinders REMOVE REPLACE LEAKING BOWL CYLINDERS

Aug 11, 2019	Service	4,260	Repair Compartment Door	REPAIR PROCESS COMMENTS: COOLANT DOOR AND COOLANT DOOR TIE DOWN LATCH MISSING. FABRICATED TIE DOWN. WINDOW COMPANY GLUED ON DOOR AND TIE DOWN LATCH. Coolant door missing COOLANT DOOR MISSING
Aug 11, 2019	Service	4,260	Repair Sos Sampling Valve As	REPAIR PROCESS COMMENTS: OIL SAMPLING VALVES ON BOTH FRONT AND REAR ENGINE LEAKING. INSTALLED NEW VALVES FOR FRONT AND REAR ENGINE. Front and rear sos ports not functioning
Aug 11, 2019	Service	4,260	Troubleshoot Combustion Head	REPAIR PROCESS COMMENTS: REAR ENGINE EXHAUST MANIFOLD HAS FLUID COMING FROM A JOINT ON THE EXHAUST MANIFOLD WHILE MACHINE WAS IDLING IN THE YARD. HOOKED ET TO MACHINE AND RAN FUEL DELIVERY TEST AND INJECTOR TEST AND MACHINE PASSED ALL TEST. PRESSURE TEST COOLING SYSTEM AND DIDN'T LOSE ANY PRESSURE. RAN MACHINE AT HIGH IDLE AND LEAK WENT AWAY. T/s oil from exhaust manifold T/S OIL FROM EXHAUST MANIFOLD
Aug 11, 2019	Service	4,260	Repair For Warranty Hydraulic Control Valve	REPAIR PROCESS COMMENTS: PERFORM SERVICE LETTER PS4599. REMOVED OLD HYDRAULIC LINE AND FITTING. REMOVED SNAP RING AND RETAINING WASHER. PART OF THE SNAP RING WAS JAMMED IN THE CHECK VALVE 6E-5010. INSTALLED NEW 6E-5010 CHECK VALVE THAT COULD NOT BE RE-USED DUE TO SNAP RING FAILURE. INSTALLED NEW UPDATED FITTING 549-4135 AND INSTALLED NEW UPDATED TUBE 553-1264. Perform sl ps45999 dated 09/10/2018 PERFORM SL PS45999 DATED 09/10/2018
Aug 11, 2019	Service	4,260	Repair Sliding Floor	REPAIR PROCESS COMMENTS: BELLY PAN HOOKS BENT UP AND BELLY PANS CAN NOT BE REMOVED. CUT OFF SOME OF THE BELLY PAN HOOKS. BELLY PAN SLIDES ON AND OFF NOW. ALSO A BELLY PAN BOLT BROKE OFF. DRILLED OUT BOLT AND REMOVED. Repair belly pan hook REPAIR BELLY PAN HOOK
Aug 11, 2019	Service	4,260	Troubleshoot Engine Coolant	REPAIR PROCESS COMMENTS: ENGINE COOLANT ON REAR ENGINE LOW. PRESSURE SYSTEM TO 12 PSI AND FOUND LEAK FOR COOLANT LINES GOING TO ARD HEAD TO THE EMISSIONS MODULE. REPLACED HOSE CLAMPS ON LINES AND LINES ARE NO LONGER LEAKING AND SYSTEM HELD PRESSURE. T/s low coolant rear engine T/S LOW COOLANT REAR ENGINE
Aug 01, 2019	Service	4,356	Troubleshoot Cushion Hitch	
Aug 01, 2019	Service	4,356	Travel To/from Work Area	REPAIR PROCESS COMMENTS: CUSHION HITCH HUNTS. PROBABLE INTERNAL LEAKAGE IN CYLINDER.

Aug 01, 2019	Service	4,356	Troubleshoot Air Conditioner	REPAIR PROCESS COMMENTS: FOUND FAN MOTOR NOT WORKING. FOUND FUSE MISSING. USED LIGHT CIRCUIT BREAKER TO CHECK CIRCUIT. FOUND POWER AT RELAY. HAVE POWER AT CONNECTION TO MOTOR. MOTOR HAS CONTINUITY. ORDERED MOTOR, FUSE BOX BREAKER, AND THERMAL FUSES. 7-17-19 - REMOVE PANELS - RECOVER A/C SYSTEM REPAIR PROCESS COMMENTS: 7-18-19 - REMOVE HVAC SYSTEM FROM THE MACHINE - DISASSEMBLE HVAC - REPLACE BLOWER MOTOR AND RESISTOR - ASSEMBLE HVAC - CHARGE A/C SYSTEM TO 4 LBS - TEST MACHINE AND SYSTEM IS WORKING AND COOLING NORMAL - INSTALL ALL GUARDS AND STEPS - MACHINE IS READY
Jul 30, 2019	Service	4,356	Travel To/from Work Area	
Jul 30, 2019	Service	4,356	Repair For Warranty Product Link System	CUSTOMER COMPLAINT: NOT REPORTING CAUSE OF FAILURE: OUTDATED PRODUCT LINK NONE REPAIR PROCESS COMMENTS: NUMBER 5493131 AND CABLE PART NUMBER 5325452. REGISTERED NEW PL542.
Jul 30, 2019	Service	4,356	Travel To/from Work Area	
Jul 30, 2019	Service	4,356	Repair For Warranty Product Link System	CUSTOMER COMPLAINT: NOT REPORTING CAUSE OF FAILURE: OUTDATED PRODUCT LINK NONE REPAIR PROCESS COMMENTS: NUMBER 5493131 AND CABLE PART NUMBER 5325452. REGISTERED NEW PL542.
Jul 09, 2019	Parts			
Jun 16, 2019	Service	4,275	Repair For Warranty Product Link System	CUSTOMER COMPLAINT: PRODUCT LINK IS NOT WORKING REPAIR PROCESS COMMENTS: 6-5-19 CHECK FOR CURRENT FLASH FILE, HAS 476-1913 IN IT UPDATE TO 532-4250 CALLED AND TALKED WITH DEBRA SANCHEZ, SHE SAID IT COULD TAKE UP TO A DAY FOR IT TO START REPORTING IT ONLY UPDATE ONCE A DAY PS42152 CUSTOMER COMPLAINT: PRODUCT LINK IS NOT WORKING REPAIR PROCESS COMMENTS: 6-5-19 CHECK FOR CURRENT FLASH FILE, HAS 476-1913 IN IT UPDATE TO 532-4250 CALLED AND TALKED WITH DEBRA SANCHEZ, SHE SAID IT COULD TAKE UP TO A DAY FOR IT TO START REPORTING IT ONLY UPDATE ONCE A DAY PS42152
Jun 16, 2019	Service	4,275	Travel To/from Work Area	

Jun 16, 2019	Service	4,275	Troubleshoot Hydraulio System	CUSTOMER COMPLAINT: HOSE TO THE APRON CYLINDER IS LEAKING CAUSE OF FAILURE: HOSE REPAIR PROCESS COMMENTS: 6-5-19 CHECK FOR LEAK ON APRON CYLINDER FIND OIL ON HOSE ON LEFT SIDE OF CYLINDER, LOOKS LIKE HOSE IS LEAKING OPERATE UNIT AND VERIFY LEAK, HOSE IS LEAKING ORDER HOSE AND THEN TRAVEL TO PICK UP HOSE AT WINDSOR STORE REMOVE THE OLD HOSE AND INSTALL THE NEW HOSE WITH NEW SEALS OPERATE UNIT AND MAKE SURE NO LEAKS ARE FOUND, GOOD Hydraulic leak at apron cylinder
Jun 16, 2019	Service	4,275	Repair For Warranty Product Link System	CUSTOMER COMPLAINT: PRODUCT LINK IS NOT WORKING REPAIR PROCESS COMMENTS: 6-5-19 CHECK FOR CURRENT FLASH FILE, HAS 476-1913 IN IT UPDATE TO 532-4250 CALLED AND TALKED WITH DEBRA SANCHEZ, SHE SAID IT COULD TAKE UP TO A DAY FOR IT TO START REPORTING IT ONLY UPDATE ONCE A DAY PS42152 CUSTOMER COMPLAINT: PRODUCT LINK IS NOT WORKING REPAIR PROCESS COMMENTS: 6-5-19 CHECK FOR CURRENT FLASH FILE, HAS 476-1913 IN IT UPDATE TO 532-4250 CALLED AND TALKED WITH DEBRA SANCHEZ, SHE SAID IT COULD TAKE UP TO A DAY FOR IT TO START REPORTING IT ONLY UPDATE ONCE A DAY PS42152
May 30, 2019	Service	4,260	Load/unload Machine	
May 30, 2019	Service	4,260	Inspect Machine	
May 30, 2019	Service	4,260	Rental Machine	
May 30, 2019	Service	4,260	Rental Steam Clean Machine	

May 30, 2019	Service	4,260	Perform Pm 1	<ul> <li>*NOTICE* THE FOLLOWING DEFINITION IS A GENERAL STATEMENT AND MAY NOT COVER ALL THE CHECKS THAT PERTAIN TO THE MODEL YOU ARE WORKING ON. ALWAYS FOLLOW CATERPILLAR OPERATIONAL MAINTENANCE MANUAL FOR SPECIFIC INSTRUCTIONS FOR THE SERVICE YOU ARE PERFORMINGCHANGE ENGINE OIL AND FILTER - OBTAIN SCHEDULED OIL SAMPLES - THE RESULTS OF THESE WILL BE SENT TO YOU UPON COMPLETION -CLEAN AIR INTAKE PRE-CLEANER -LUBRICATE ALL GREASE FITTINGS - DRAIN WATER SEPARATOR -CHECK COOLANT CONDITION AND ADD INHIBITOR IF NECESSARY -CHECK ALL FLUID LEVELS -PERFORM VISUAL OPERATIONAL INSPECTION - CHECK TRACK ADJUSTMENT (WHEN APPLICABLE) ************************************</li></ul>
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May 30, 2019	Service	4,260	Inspect Machine	
May 30, 2019	Service	4,260	Check Seat Belt	
May 30, 2019	Service	4,260	Inspect Do Not Use - After Servic	REPAIR PROCESS COMMENTS: INSPECT TWO MACHINES AFTER SERVICE FOR LEAKS AND FUNCTIONALITY. NO LEAKS MACHINE RUNS GREAT. AS PER LOREN SUBLEASE MACHINES As per loren AS PER LOREN
May 30, 2019	Service	4,260	Rental Steam Clean Machine	
May 30, 2019	Service	4,260	Perform When Required	REPAIR PROCESS COMMENTS: PERFORM RENTAL SAFETY/DAMAGE SHEET. INSPECT MACHINE FOR REPAIRS.
May 30, 2019	Service	4,260	Load/unload Machine	

May 30, 2019	Service	4,260	Perform Pm 1	*NOTICE* THE FOLLOWING DEFINITION IS A GENERAL STATEMENT AND MAY NOT COVER ALL THE CHECKS THAT PERTAIN TO THE MODEL YOU ARE WORKING ON. ALWAYS FOLLOW CATERPILLAR OPERATIONAL MAINTENANCE MANUAL FOR SPECIFIC INSTRUCTIONS FOR THE SERVICE YOU ARE PERFORMINGCHANGE ENGINE OIL AND FILTER - OBTAIN SCHEDULED OIL SAMPLES - THE RESULTS OF THESE WILL BE SENT TO YOU UPON COMPLETION -CLEAN AIR INTAKE PRE-CLEANER -LUBRICATE ALL GREASE FITTINGS - DRAIN WATER SEPARATOR -CHECK COOLANT CONDITION AND ADD INHIBITOR IF NECESSARY -CHECK ALL FLUID LEVELS -PERFORM VISUAL OPERATIONAL INSPECTION - CHECK TRACK ADJUSTMENT (WHEN APPLICABLE) ************************************
May 30, 2019	Service	4,260	Rental Machine	

Feb 17, 2019	Service	4,201	Ejector Cylinder	CUSTOMER COMPLAINT: REPAIR HYDRAULIC SYSTEM REPAIR PROCESS COMMENTS: STARTED AND FOUND REVERSE SOLENOID FOR EJECTOR WAS CURRENT BELOW NORMAL. JUMPED HARNESS AND CODE WENT TO VOLTAGE ABOVE NORMAL. ORDERED CUSTOMER COMPLAINT: REPAIR HYDRAULICS REPAIR PROCESS COMMENTS: ARRIVED AT MACHINE, GOT MACHINE STARTED AND TURNED TO WORK ON. REMOVED COVER AND REMOVED SOLENOID VALVE. INSTALLED NEW VALVE, RAN MACHINE AND CHECKED OPERATION, ALL CHECKED GOOD. INSTALLED COVERS. CUSTOMER COMPLAINT: CAUSE OF FAILURE: 374-9027 WIRING HARNESS RUBBED THREW REPAIR PROCESS COMMENTS: 2-13-19 - RAN MACHINE AND FOUND CODE ACTIVE - REMOVED GUARD FROM SOLENOIDS - CHECKED CONNECTOR AND IT SEEMED TIGHT - UNPLUGGED SOLENOID AND CODE WENT TO VOLTAGE BELOW NORMAL THAT WOULD SAY THE SOLENOID IT FAILED WE REPLACED THE SOLENOID ABOUT A WEEK AGO FOR THIS SAME CODE - PLUGGED SOLENOID BACK IN AND NO CODES ARE ACTIVE INSPECT WIRING AND FOUND THE BLUE R714 WIRE RUBBED THREW ON THE MACHINE FRAME - PARTS ARE IN WACO. ORDERED PARTS - PUT SHRINK TUBBING ON EXPOSED WIRES UNTIL NEW HARNESS GETS IN AND INSTALLED - I HAD TO REPLACED THE CONNECTORS FOR THIS BROKEN TRYING TO DISASSEMBLE CHECKED MACHINE OPERATION AND NO CODES ALL FUNCTIONS SEEM NORMAL - MACHINE IS READY FOR CUSTOMER CUSTOMER COMPLAINT: REPAIR HARNESS CAUSE OF FAILURE: HARNESS RUBBED THROUGH REPAIR PROCESS COMMENTS: ARRIVED AT MACHINE, MOVED MACHINE SO COULD WORK ON IT. REMOVED COVER OFF OF CONTROL VALVE AND REMOVED AD HARNESS. INSTALLED NEW HARNESS AND ROUTED SO WOULD NOT RUB. INSTALLED COVERS AND RAN MACHINE CHECKED OUT GOOD. Ejector cylinder codes e369 (3) ejector fault EJECTOR CYLINDER CODES E369 (3) EJECTOR FAULT 1421-9 EJECTOR CYLINDER CODES E369 (3) EJECTOR FAULT 1421-9 EJECTOR
Feb 17, 2019	Service	4,201	Travel To/from Work Area	CUSTOMER COMPLAINT: REPAIR PROCESS COMMENTS: TRAVEL TO AND FROM JOB. CUSTOMER COMPLAINT: TRAVEL TRAVEL TO AND FROM JOB. TOOK LONGER TO GET BACK DUE TO WEATHER AND ACIDENTS. CUSTOMER COMPLAINT: TRAVEL REPAIR PROCESS COMMENTS: TRAVEL TO AND FROM JOB.
Jan 18, 2019	Service	4,055	Inspect Machine	
Jan 18, 2019	Service	4,055	Rental Steam Clean Machine	
Jan 18, 2019	Service	4,055	Perform When Required	

Jan 18, 2019	Service	4,055	Repair Air Line/pipe	GROUND OUT CRACK. WELD IN. GRIND FLAT AND SMOOTH. PAINT. Repair air inlet tube REPAIR AIR INLET TUBE
Jan 18, 2019	Service	4,055	Inspect Machine	
Jan 18, 2019	Service	4,055	Troubleshoot Clean Emissions Module	CUSTOMER COMPLAINT: TROUBLESHOOT CEM CAUSE OF FAILURE: EGR INTAKE PRESSURE SENSOR BROKEN RESULTANT DAMAGE: EGR INTAKE PRESSURE SENSOR BROKEN REPAIR PROCESS COMMENTS: PULLED MACHINE INTO SHOP AND HOOKED UP CAT ET. SEEN CODE WAS FOR REAR ENGINE AND LOOKED AT SENSOR AND SEEN IT WAS BROKEN. ORDERED NEW SENSOR AND REPLACED SENSOR. DOUBLE CHECKED AND MADE SURE Troubleshoot engine code 3385-21 front engine TROUBLESHOOT ENGINE CODE 3385-21 FRONT ENGINE
Jan 18, 2019	Service	4,055	Troubleshoot Differential	TROUBLE SHOOT DIFFERENTIAL CAUSE OF FAILURE: LEFT FRONT PARK BRAKE LEAKING OIL RESULTANT DAMAGE: HYDRAULIC OIL TRANSFERRING INTO DIFFERENTIAL REPAIR PROCESS COMMENTS: TESTED VARIOUS MACHINE SYSTEMS (DIFF LOCK, PARK BRAKE AND SERVICE BRAKE) LEFT FRONT PARK BRAKE WAS ONLY THING LOOSING PRESSURE. TORE BRAKE DOWN AND FOUND A BAD BACKUP RING CAUSING O- RING TO MOVE AND LET PRESSURE BY. ORDERED NEW SEALS AND PUT BRAKE BACK TOGETHER AND TESTED BRAKE AGAIN BEFORE MOUNTING IT ON MACHINE. BRAKE PASSED PRESSURE TEST AND REASSEMBLED MACHINE AND REFILLED FLUIDS USING NEW DIFF OIL. TOOK MACHINE FOR DRIVE AND MADE SURE SYSTEMS WORKED PROPERLY. Troubleshoot diff. lock TROUBLESHOOT DIFF. LOCK
Jan 18, 2019	Service	4,055	Repair Hoses & Lines	CUSTOMER COMPLAINT: REPAIR CUSHION HITCH CAUSE OF FAILURE: RESULTANT DAMAGE: LOSS OF HYDRAULIC FLUID REPAIR PROCESS COMMENTS: PULLED MACHINE INTO SHOP CHANGED HOSE P/N 441-3488 LEAKS WERE PRESENT. Repair cushion hitch line REPAIR CUSHION HITCH LINE
Jan 18, 2019	Service	4,055	Repair Hoses & Lines	REPAIR HOSES AND LINES CAUSE OF FAILURE: FASTENERS MISSING RESULTANT DAMAGE: FASTENERS MISSING REPAIR PROCESS COMMENTS: PULLED MACHINE INTO SHOP AND REPLACED VARIOUS MISSING FASTENERS. Replace clamps and hardware on hyd lines REPLACE CLAMPS AND HARDWARE ON HYD LINES
Jan 18, 2019	Service	4,055	Inspect Do Not Use - After Servic	
Jan 18, 2019	Service	4,055	Install Fasteners, Conn & Hardwr	Install missing hardware on rear eng. INSTALL MISSING HARDWARE ON REAR ENG.

Jan 18, 2019	Service	4,055	Rental Steam Clean Machine	
Jan 18, 2019	Service	4,055	Repair Hood	CUSTOMER COMPLAINT: REPAIR HOOD CAUSE OF FAILURE: REAR COOLANT DOOR MISSING RESULTANT DAMAGE: COOLANT DOOR BROKEN REPAIR PROCESS COMMENTS: ORDERED PARTS FOR REPAIR WAITING FOR MACHINE TO RETURN TO INSTALL PARTS. Replace missing rear coolant door on hood REPLACE MISSING REAR COOLANT DOOR ON HOOD
Dec 06, 2018	Service	1	Travel To/from Work Area	
Dec 06, 2018	Service	1	Troubleshoot Hydraulic System	CUSTOMER COMPLAINT: HYRDRAULIC LEAK CAUSE OF FAILURE: LOSE BOLTS ON FILL PIPE FOR DIF. RESULTANT DAMAGE: LOSS OF OIL REPAIR PROCESS COMMENTS: REMOVED PAN AND CHECK FOR LEAKS. FOUND LOSS BOLTS AND CLEAN OIL OFF THEN TIGHTENED UP FLANGE PUT 5 GALS IN HYDRAULIC TANK BUT CANT FIND WERE HYDRAULIC LEAK IS. THINK THEY MIGHT HAVE BLOWN A HOSE A BIT BACK. NEED 10 MORE GALS OF HYDRAULIC OIL AND 5 GALLONS OF TRANS OIL. DIFF A BIT OVERFULL MUST BE INTERNAL DIFF LOCK LEAK. T/s and repair hydraulic leak???? T/S AND REPAIR HYDRAULIC LEAK????
Dec 06, 2018	Service	1	Travel To/from Work Area	
Dec 06, 2018	Service	1	Troubleshoot Hydraulic System	CUSTOMER COMPLAINT: HYRDRAULIC LEAK CAUSE OF FAILURE: LOSE BOLTS ON FILL PIPE FOR DIF. RESULTANT DAMAGE: LOSS OF OIL REPAIR PROCESS COMMENTS: REMOVED PAN AND CHECK FOR LEAKS. FOUND LOSS BOLTS AND CLEAN OIL OFF THEN TIGHTENED UP FLANGE PUT 5 GALS IN HYDRAULIC TANK BUT CANT FIND WERE HYDRAULIC LEAK IS. THINK THEY MIGHT HAVE BLOWN A HOSE A BIT BACK. NEED 10 MORE GALS OF HYDRAULIC OIL AND 5 GALLONS OF TRANS OIL. DIFF A BIT OVERFULL MUST BE INTERNAL DIFF LOCK LEAK. T/s and repair hydraulic leak???? T/S AND REPAIR HYDRAULIC LEAK???
Nov 29 2018	Parts			

Nov 29, 2018 Parts

Nov 28, 2018	Service	3,866	Add Parts Pm 4	*NOTICE* THE FOLLOWING DEFINITION IS A GENERAL STATEMENT AND MAY NOT COVER ALL THE CHECKS THAT PERTAIN TO THE MODEL YOU ARE WORKING ON. ALWAYS FOLLOW SPECIFIC INSTRUCTIONS FOR THE SERVICE YOU ARE PERFORMINGLEAN AND INSPECT MAGNETIC SCREEN - CHANGE HYDRAULIC OIL AND FILTERS -CHANGE DIFFERENTIAL AND FINAL DRIVE OIL -CHANGE SWING DRIVE OIL (WHEN APPLICABLE) -ADJUST ENGINE VALVE LASH & CHECK ROTATORS -OBTAIN SCHEDULED OIL SAMPLES - THE RESULTS OF THESE WILL BE SENT TO YOU UPON COMPLETION -CHANGE ENGINE COOLANT IF RECOMMENDED OR CHECK COOLANT TO YOU UPON COMPLETION -CHANGE ENGINE COOLANT IF RECOMMENDED OR CHECK COOLANT CONDITION AND ADD INHIBITOR IF NECESSARY -ADJUST ENGINE VALVE LASH AND CHECK ROTATORS - LEAN AIR INTAKE PRE-CLEANER BOWL - LUBRICATE ALL GREASE FITTINGS -CHECK ALL FLUID LEVELS - CLEAN ENGINE CRANKCASE BREATHER -DRAIN WATER SEPARATOR -CLEAN PRIMARY FUEL FILTER AND REPLACE SECONDARY -PERFORM VISUAL OPERATIONAL INSPECTION CUSTOMER IS RESPONSIBLE FOR THE FOLLOWING: WHEN REQUIRED ITEMS, 10 HOUR OR DAILY, 50 HOUR OR WEEKLY, 100 HOUR OR BI-MONTHLY SERVICE INTERVALS. TO INCLUDE ALL PARTS (I.E. ENGINE AND CAB AIR FILTERS, MAKEUP OIL AND G.E.T.), ADJUSTMENT OF BALL SOCKETS, CIRCLES, ADJUSTMENT AND REPACKING OF ROLLERS (WHEN APPLICABLE). ************************************
			Add Parts Pm 4	

Nov 28, 2018

3,866

Service

Nov 28, 2018 Service 3,866 Final Drive COMMENTS: REMOVED THE BELLY PAN. DISCONNECTED BRAKE LINE AND INSTALLED HAND PWT WITH GAUGE. BUMPED BRAKE LINE AND INSTALLED HAND PWT WITH GAUGE. BUMPED BRAKE LINE AND INSTALLED HAND PWT WITH GAUGE. BUMPED BRAKE LINE AND NO SERVICE OAUGE TO 580 PSI. CLOSED VALVE AND OBSERVED GAUGE TO 580 PSI. CLOSED VALVE AND NO BESERVED CAUGE TO 580 PSI. BUT PENT NO PHERSURE DROP. NO PRESSURE DROP. NO PRESSURE DROP. NO PRESSURE DROP. REMOVED TEST THE FARK BRAKE LINES AND HOOKED UP TEST EQUIPMENT. PUMPED UP BARK BRAKE TO 830 PSI. OBSERVED SLIGHT DROP TO 800 PSI, BUT THEN THE GAUGE STOPPED. REMOVED TEST EQUIPMENT AND INSTALLED IT THE OTHER SID AND CHECKED AGAIN. WITH THE SAME RESULT, PRESSURED UP TO 830 PSI, AND OBSERVED A SLIG DROP TO 800 PSI AND DBSERVED AS LIG DROP TO 800 PSI AND THE GAUGE STOPPED. REMOVED TE EQUIPMENT AND INSTALLED FOUND A LEAK ON A HARD LI FOR THE BAIL SYSTEM. DRAINED HYDRAULIC TANK AND REPLACED THE O-RING SEAL. RAN MACHINE AND CHECKED FOR LEAK. STILL LEAKING. FOUND A SERVICE MAGAZINE FO THE LINE THAT WAS LEAKING. FOUND A SERVICE GASKET/ RESULT AND DRONE TO CRACKING. MEDIA NUMBER M0003551-00. CUSTOMER COMPLAIT: REPLACE GASKET/ RESEAL FINAL DRIVE. CAUSE OF FAIL UNE: STITHLE PHANE DRUM PUMP REPLACE GAUGE. SUMPED BRAKES UP TO 850 PSI. LIENE STEM AND PUMP WIT REPAR PROCESS FOR OTHER SIDE BRAKE AND NO BESERVED ORESSURE DROP. NO PRESSURE DROP. REPEATED PROCESS FOR OTHER SIDE BRAKE AND NO BESERVED FOR DAUGE TO SEE PRESSURE DROP. NO PRESSURE DROP. REPEATED PROCESS FOR OTHER SIDE BRAKE AND NO BESERVED FOR DAUGE TO SEE PRESSURE DROP. NO PRESSURE DROP. REPEATED PROCESS FOR OTHER SIDE BRAKE AND NO BESERVED FOR DAUGE TO MER SUMPED BRAKE TO 300 PSI. TEST THE PARK BRAKE LINES AND HOOKED UP TEST EQUIPMENT. PUMPED UP BARK BRAKE TO 300 PSI.	Nov 2	28, 2018	Service	3,866	•	BRAKE LINE AND INSTALLED HAND PUMP WITH GAUGE. BUMPED BRAKES UP TO 850 PSI, CLOSED VALVE AND OBSERVED GAUGE TO SEE PRESSURE DROP. NO PRESSURE DROP. REPEATED PROCESS FOR OTHER SIDE BRAKE AND NO OBSERVED PRESSURE DROP AFTER 10 MINUTES. REMOVED TEST THE PARK BRAKE LINES AND HOOKED UP TEST EQUIPMENT. PUMPED UP BARK BRAKE TO 830 PSI. OBSERVED SLIGHT DROP TO 800 PSI, BUT THEN THE GAUG STOPPED. REMOVED TEST EQUIPMENT AND INSTALLED IT O THE OTHER SID AND CHECKED AGAIN, WITH THE SAME RESULT, PRESSURED UP TO 830 PSI AND OBSERVED A SLIGH DROP TO 800 PSI AND THE GAUGE STOPPED. REMOVED TEST EQUIPMENT AND INSTALLED FOUND A LEAK ON A HARD LI FOR THE BAIL SYSTEM. DRAINED HYDRAULIC TANK AND REPLACED THE O-RING SEAL. RAN MACHINE AND CHECKED FOR LEAK. STILL LEAKING. FOUND A SERVICE MAGAZINE FO THE LINE THAT WAS LEAKING STATING THAT THE LINE IS TOO THIN AND PRONE TO CRACKING. MEDIA NUMBER M0083551-00. CUSTOMER COMPLAINT: REPLACE GASKET/ RESEAL FINAL DRIVE. CAUSE OF FAILURE: EXTERNAL LEAKS RESULTANT DAMAGE: LEAKS EVIDENT ON FRONT RIGHT THE REPAIR PROCESS COMMENTS: INSTALLED HAND PUMP WIT GAUGE. BUMPED BRAKES UP TO 850 PSI, CLOSED VALVE AN OBSERVED GAUGE TO SEE PRESSURE DROP. NO PRESSURE DROP. REPEATED PROCESS FOR OTHER SIDE BRAKE AND NO OBSERVED PRESSURE DROP AFTER 10 MINUTES. REMOVED TEST THE PARK BRAKE LINES AND HOOKED UP TEST
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				DROP TO 800 PSI AND THE GAUGE STOPPED. REMOVED TEST EQUIPMENT AND INSTALLED BRAKE LINES. INSTALLED BELLY PANS. CLEANED OFF THE TOP OF THE DIFFERENTIAL CASE AND RAN MACHINE. FOUND A LEAK ON A HARD LINE FOR THE BAIL SYSTEM. DRAINED HYDRAULIC TANK AND REPLACED THE O-RING SEAL. RAN MACHINE AND CHECKED FOR LEAK. STILL LEAKING. FOUND A SERVICE MAGAZINE FOR THE LINE THIN AND PRONE TO CRACKING. MEDIA NUMBER M0083551-00. Check for brake oil transfer into final drive CHECK FOR BRAKE OIL TRANSFER INTO FINAL DRIVE BEFORE DOWNING THE MACHINE.
Nov 28, 2018	Service	3,866	Troubleshoot Engine	CUSTOMER COMPLAINT: FUEL IN ENGINE OIL CAUSE OF FAILURE: LEAKING INJECTOR RESULTANT DAMAGE: FUEL IN ENGINE OIL REPAIR PROCESS COMMENTS: REMOVED BREATHER FROM VALVE COVER. REMOVED CENTER SUPPORT STRUCTURE BELOW DPF. DISCONNECTED AFTER TREATMENT LINES AND TURBO SIGNAL HOSE. RAISED VALVE COVER UP AND HELD IN PLACE WITH A STRAP. PUT 2 BOTTLES OF LEAK DETECTOR IN FILTERS. RAN ENGINE AND CHECKED FOR LEAKS USING UV LIGHT. NO LEAKS ON INJECTORS 1, 2, 4, 5, 6, COULD NOT SEE NUMBER 3 INJECTOR DUE TO EXHAUST BRAKE AND AFTER TREATMENT LINES. REMOVED HAND RAILS AND HOOD. DISCONNECTED AFTER TREATMENT LINES, FUEL LINE, AND ELECTRICAL HARNESS FROM AFTER TREATMENT MODULE. DISCONNECTED INLET TUBE AND EXHAUST FROM AFTER TREATMENT MODULE. REMOVED THE ONE BOLT FROM THE AFTER TREATMENT MODULE. REMOVED THE ONE BOLT FROM THE AFTER TREATMENT MODULE AND REMOVED. REMOVED THE MOUNTING PLATE FOR THE AFTER TREATMENT MO DUAL AND REMOVED THE VALVE COVER. REMOVED THE EXHAUST BRAKE AND LOOKED FOR LEAK USING UV LIGHT. NUMBER 3 INJECTOR WAS LEAKING FUEL. REMOVED/ REPLACED THE HARD LINE FROM THE FUEL RAIL. REMOVED/REPLACED QUILL TUBE (AS PER R&I INJECTOR UNIT INSTRUCTIONS) OUT UNTIL O-RING SEAL WAS VISIBLE. DISCONNECTED INJECTOR HARNESS AND REMOVED THE INJECTOR. SUCKED OUT FUEL FROM THE CYLINDER AND INSTALLED NE INJECTOR. INSTALLED IN REVERSE ORDER REPLACING MISSING HARDWARE AS NEEDED. FILLED WITH OIL. FLASHED ECM WITH NEW INJECTOR TRIM CODE AND CHANGED ENGINE OIL. RAN ENGINE TO CHECK FOR PROPER OPERATION. NO LEAKS OR FUNNY NOISES, ALSO NO NEW CODE ON ECM. Excessive fuel dilusion EXCESSIVE FUEL DILUSION

RESULT, PRESSURED UP TO 830 PSI AND OBSERVED A SLIGHT

Nov 28, 2018	Service	3,866	Perform Pm 4	*NOTICE* THE FOLLOWING DEFINITION IS A GENERAL STATEMENT AND MAY NOT COVER ALL THE CHECKS THAT PERTAIN TO THE MODEL YOU ARE WORKING ON. ALWAYS FOLLOW SPECIFIC INSTRUCTIONS FOR THE SERVICE YOU ARE PERFORMINGCLEAN AND INSPECT MAGNETIC SCREEN - CHANGE HYDRAULIC OIL AND FILTERS -CHANGE DIFFERENTIAL AND FINAL DRIVE OIL -CHANGE SWING DRIVE OIL (WHEN APPLICABLE) -ADJUST ENGINE VALVE LASH & CHECK ROTATORS -OBTAIN SCHEDULED OIL SAMPLES - THE RESULTS OF THESE WILL BE SENT TO YOU UPON COMPLETION -CHANGE ENGINE COOLANT IF RECOMMENDED OR CHECK COOLANT CONDITION AND ADD INHIBITOR IF NECESSARY -ADJUST ENGINE VALVE LASH AND CHECK ROTATORS -CLEAN AIR INTAKE PRE-CLEANER BOWL - LUBRICATE ALL GREASE FITTINGS -CHECK ALL FLUID LEVELS - CLEAN ENGINE CRANKCASE BREATHER -DRAIN WATER SEPARATOR -CLEAN PRIMARY FUEL FILTER AND REPLACE SECONDARY -PERFORM VISUAL OPERATIONAL INSPECTION CUSTOMER IS RESPONSIBLE FOR THE FOLLOWING: WHEN REQUIRED ITEMS, 10 HOUR OR DAILY, 50 HOUR OR WEEKLY, 100 HOUR OR BI-MONTHLY SERVICE INTERVALS. TO INCLUDE ALL PARTS (LE. ENGINE AND CAB AIR FILTERS, MAKEUP OIL AND G.E.T.), ADJUSTMENT OF BALL SOCKETS, CIRCLES, ADJUSTMENT AND REPACKING OF ROLLERS (WHEN APPLICABLE). ************************************
Nov 28, 2018	Service	3,866	Inspect Machine	
Nov 28, 2018	Service	3,866	Add Parts Pm 4	
Nov 28, 2018	Service	3,866	Clean Machine	
Nov 27, 2018	Parts			
Nov 27, 2018	Service	3,866	Inspect Machine	

Nov 27, 2018	Service	3,866	Perform Pm 4	*NOTICE* THE FOLLOWING DEFINITION IS A GENERAL STATEMENT AND MAY NOT COVER ALL THE CHECKS THAT PERTAIN TO THE MODEL YOU ARE WORKING ON. ALWAYS FOLLOW SPECIFIC INSTRUCTIONS FOR THE SERVICE YOU ARE PERFORMINGCLEAN AND INSPECT MAGNETIC SCREEN - CHANGE HYDRAULIC OIL AND FILTERS -CHANGE DIFFERENTIAL AND FINAL DRIVE OIL -CHANGE SWING DRIVE OIL (WHEN APPLICABLE) -ADJUST ENGINE VALVE LASH & CHECK ROTATORS -OBTAIN SCHEDULED OIL SAMPLES - THE RESULTS OF THESE WILL BE SENT TO YOU UPON COMPLETION -CHANGE ENGINE COOLANT IF RECOMMENDED OR CHECK COOLANT CONDITION AND ADD INHIBITOR IF NECESSARY -ADJUST ENGINE VALVE LASH AND CHECK ROTATORS -CLEAN AIR INTAKE PRE-CLEANER BOWL - LUBRICATE ALL GREASE FITTINGS -CHECK ALL FLUID LEVELS - CLEAN ENGINE CRANKCASE BREATHER -DRAIN WATER SEPARATOR -CLEAN PRIMARY FUEL FILTER AND REPLACE SECONDARY -PERFORM VISUAL OPERATIONAL INSPECTION CUSTOMER IS RESPONSIBLE FOR THE FOLLOWING: WHEN REQUIRED ITEMS, 10 HOUR OR DAILY, 50 HOUR OR WEEKLY, 100 HOUR OR BI-MONTHLY SERVICE INTERVALS. TO INCLUDE ALL PARTS (I.E. ENGINE AND CAB AIR FILTERS, MAKEUP OIL AND G.E.T.), ADJUSTMENT OF BALL SOCKETS, CIRCLES, ADJUSTMENT AND REPACKING OF ROLLERS (WHEN APPLICABLE). ************************************
Nov 27, 2018	Service	3,866	Inspect Machine	
1100 27, 2010	Service	5,000		
Nov 27, 2018	Service	3,866	Clean Machine	

Nov 27, 2018	Service	3,866	Troubleshoot Engine	CUSTOMER COMPLAINT: FUEL IN ENGINE OIL CAUSE OF FAILURE: LEAKING INJECTOR RESULTANT DAMAGE: FUEL IN ENGINE OIL REPAIR PROCESS COMMENTS: REMOVED BREATHER FROM VALVE COVER. REMOVED CENTER SUPPORT STRUCTURE BELOW DPF. DISCONNECTED AFTER TREATMENT LINES AND TURBO SIGNAL HOSE. RAISED VALVE COVER UP AND HELD IN PLACE WITH A STRAP. PUT 2 BOTTLES OF LEAK DETECTOR IN FILTERS. RAN ENGINE AND CHECKED FOR LEAKS USING UV LIGHT. NO LEAKS ON INJECTORS 1, 2, 4, 5, 6, COULD NOT SEE NUMBER 3 INJECTOR DUE TO EXHAUST BRAKE AND AFTER TREATMENT LINES. REMOVED HAND RAILS AND HOOD. DISCONNECTED AFTER TREATMENT LINES, FUEL LINE, AND ELECTRICAL HARNESS FROM AFTER TREATMENT MODULE. DISCONNECTED INLET TUBE AND EXHAUST FROM AFTER TREATMENT MODULE. REMOVED THE ONE BOLT FROM THE AFTER TREATMENT MODULE. REMOVED THE ONE BOLT FROM THE AFTER TREATMENT MODULE AND REMOVED. REMOVED THE MOUNTING PLATE FOR THE AFTER TREATMENT MO DUAL AND REMOVED THE VALVE COVER. REMOVED THE EXHAUST BRAKE AND LOOKED FOR LEAK USING UV LIGHT. NUMBER 3 INJECTOR WAS LEAKING FUEL. REMOVED/ REPLACED THE HARD LINE FROM THE FUEL RAIL. REMOVED/REPLACED QUILL TUBE (AS PER R&I INJECTOR UNIT INSTRUCTIONS) OUT UNTIL O-RING SEAL WAS VISIBLE. DISCONNECTED INJECTOR HARNESS AND REMOVED THE INJECTOR. SUCKED OUT FUEL FROM THE CYLINDER AND INSTALLED NE INJECTOR. HARNESS AND REMOVED THE INJECTOR. SUCKED OUT FUEL FROM THE CYLINDER AND INSTALLED NE INJECTOR. INSTALLED IN REVERSE ORDER REPLACING MISSING HARDWARE AS NEEDED. FILLED WITH OIL, FLASHED ECM WITH NEW INJECTOR TRIM CODE AND CHANGED ENGINE OIL. RAN ENGINE TO CHECK FOR PROPER OPERATION. NO LEAKS OR FUNNY NOISES, ALSO NO NEW CODE ON ECM. Excessive fuel dilusion EXCESSIVE FUEL DILUSION
Nov 27, 2018	Service	3,866	Add Parts Pm 4	

Nov 27, 2018	Service	3,866	Replace Gasket/reseal Final Drive	CUSTOMER COMPLAINT: BEFORE DOWNING MACHINE. REPAIR PROCESS COMMENTS: ASSISTED IN TROUBLE SHOOTING MACHINE., TEST RAN MACHINE AFTER PARK BRAKE, BRAKE, AND DIFLOCK PRESSURES WERE TESTED. MARKED WHERE THE HYDRUALIC OIL WAS ON THE TANK BEFORE RUNNING THE MACHINE. DID THE BRAKE TEST. RAN BRAKES LOADED AND UNLOADED. UTILIZED THE DIFFLOCK WHILE WORKING MACHINE COOL DOWN OVER NIGHT CHECKED THE FINALS. DIFF OIL LEVEL DID NOT MOVE, NOR DID THE HYDRUALIC OIL LEVEL. IN CONCLUSION, IT IS POSSIBLE THAT THE FINALS WERE OVER FILLED, (AS THE ONES IN THE REAR WERE OVER FILLED), AND TI S ALSO POSSIBLE THAT THE OIL WAS CHECKED ON THE DIFF AT THE END OF THE DAY WHEN MOST OF THE OIL WOULD HAVE BEEN IN THE FINALS. THIS WOULD MAKE THE DIFF SEM LOW AND NEED MORE OIL WHICH WOULD LEAD TO OVER FILLING. WHILE TEST RUNNING THE MACHINE, A HYDRUALIC LEAK WAS NOTICED FROM THE BOTTOM HYDRUALIC HOSE ON THE CUSHION HITCH. THE BOLTS TO THE CLAMPS WERE BACKED OUT. CLEANED UP THE AFFECTED AREA, REPLACED THE O- RING AND TIGHTENED THE CLAMP UP. CUSTOMER COMPLAINT: CAUSE OF FAILURE: RESULTANT DAMAGE: LEAKS EVIDENT ON FRONT RIGHT TIRE REPAIR PROCESS COMMENTS: REMOVED THE BELLY PAN. DISCONNECTED BRAKE LINE AND INSTALLED HAND PUMP WITH GAUGE. BUMPED BRAKES UP TO 850 PSI, CLOSED VALVE AND OBSERVED GAUGE TO SEE PRESSURE DROP. NO PRESSURE DROP. REPEATED PROCESS FOR OTHER SIDE BRAKE AND NO OBSERVED PARSSURE DROP AFTER 10 MINUTES. REMOVED TEST THE PARK BRAKE LINES AND HOOKED UP TEST EQUIPMENT. PUMPED UP BARK BRAKE TO 830 PSI. OBSERVED PRESSURED DROP ATTER 10 MINUTES. REMOVED TEST THE PARK BRAKE LINES AND HOOKED UP TEST EQUIPMENT. PUMPED UP BARK BRAKE TO 830 PSI. OBSERVED SLIGHT DROP TO 800 PSI, BUT THEN THE GAUGE STOPPED. REMOVED TEST EQUIPMENT AND INSTALLED IT ON THE OTHER SID AND CHECKED AGAIN, WITH THE SAUGE STOPPED. REMOVED TEST EQUIPMENT AND SHALLED TEST EQUIPMENT. PUMPED UP BARK BRAKE TO 830 PSI. OBSERVED SLIGHT DROP TO 800 PSI, BUT THEN THE GAUGE FOR THE BAIL SYSTEM. DRAINED HYDRAULIC TANK AND REPLACED THE O-RING SEAL. RAN MACHINE AND CHECKED FOR THE BA
				STOPPED. REMOVED TEST EQUIPMENT AND INSTALLED IT ON

RESULT, PRESSURED UP TO 830 PSI AND OBSERVED A SLIGHT DROP TO 800 PSI AND THE GAUGE STOPPED. REMOVED TEST EQUIPMENT AND INSTALLED BRAKE LINES. INSTALLED BELLY PANS. CLEANED OFF THE TOP OF THE DIFFERENTIAL CASE AND RAN MACHINE. FOUND A LEAK ON A HARD LINE FOR THE BAIL SYSTEM. DRAINED HYDRAULIC TANK AND REPLACED THE O-RING SEAL. RAN MACHINE AND CHECKED FOR LEAK. STILL LEAKING. FOUND A SERVICE MAGAZINE FOR THE LINE THIN AND PRONE TO CRACKING. MEDIA NUMBER M0083551-00. Check for brake oil transfer into final drive CHECK FOR BRAKE OIL TRANSFER INTO FINAL DRIVE BEFORE DOWNING THE MACHINE.

Nov 23, 2018	Service	3,928	Travel To/from Work Area	
Nov 23, 2018	Service	3,928	Troubleshoot Hydraulic System	CUSTOMER COMPLAINT: VALVE IS LEAKING CAUSE OF FAILURE: VALVE BODY IS CRACKED RESULTANT DAMAGE: LEAKING REPAIR PROCESS COMMENTS: 11-5-18 -THE VALVE BLOCK IS CRACKED ABOUT A 1/4 OF A INCH REPAIR PROCESS COMMENTS: 11-6-18 -REPLACE THE VALVE BODY -OPERATE UNIT AND MAKE SURE NO LEAKS ARE FOUND -NO LEAKS REPAIR PROCESS COMMENTS: 11-6-18 -REPLACE THE VALVE BODY -OPERATE UNIT AND MAKE SURE NO LEAKS ARE FOUND -NO LEAKS Cuchion hitch has leak on blue valve?? CUCHION HITCH HAS LEAK ON BLUE VALVE?
Nov 16, 2018	Parts			
Oct 30, 2018	Parts			
Oct 19, 2018	Parts			
Oct 15, 2018	Service	3,866	Inspect Machine	

Oct 15, 2018	Service	3,866	Troubleshoot Engine	CUSTOMER COMPLAINT: FUEL IN ENGINE OIL CAUSE OF FAILURE: LEAKING INJECTOR RESULTANT DAMAGE: FUEL IN ENGINE OIL REPAIR PROCESS COMMENTS: REMOVED BREATHER FROM VALVE COVER. REMOVED CENTER SUPPORT STRUCTURE BELOW DPF. DISCONNECTED AFTER TREATMENT LINES AND TURBO SIGNAL HOSE. RAISED VALVE COVER UP AND HELD IN PLACE WITH A STRAP. PUT 2 BOTTLES OF LEAK DETECTOR IN FILTERS. RAN ENGINE AND CHECKED FOR LEAKS USING UV LIGHT. NO LEAKS ON INJECTORS 1, 2, 4, 5, 6, COULD NOT SEE NUMBER 3 INJECTOR DUE TO EXHAUST BRAKE AND AFTER TREATMENT LINES. REMOVED HAND RAILS AND HOOD. DISCONNECTED AFTER TREATMENT LINES, FUEL LINE, AND ELECTRICAL HARNESS FROM AFTER TREATMENT MODULE. DISCONNECTED INLET TUBE AND EXHAUST FROM AFTER TREATMENT MODULE. REMOVED THE ONE BOLT FROM THE AFTER TREATMENT MODULE. REMOVED THE ONE BOLT FROM THE AFTER TREATMENT MODULE AND REMOVED. REMOVED THE MOUNTING PLATE FOR THE AFTER TREATMENT MO DUAL AND REMOVED THE VALVE COVER. REMOVED THE EXHAUST BRAKE AND LOOKED FOR LEAK USING UV LIGHT. NUMBER 3 INJECTOR WAS LEAKING FUEL RAIL. REMOVED/REPLACED QUILL TUBE (AS PER R&I INJECTOR UNIT INSTRUCTIONS) OUT UNTIL O-RING SEAL WAS VISIBLE. DISCONNECTED INJECTOR HARNESS AND REMOVED THE INJECTOR. SUCKED OUT FUEL FROM THE CYLINDER AND INSTALLED NE INJECTOR. INSTALLED IN REVERSE ORDER REPLACING MISSING HARDWARE AS NEEDED. FILLED WITH OIL. FLASHED ECM WITH NEW INJECTOR TRIM CODE AND CHANGED ENGINE OIL. RAN ENGINE TO CHECK FOR PROPER OPERATION. NO LEAKS OR FUNNY NOISES, ALSO NO NEW CODE ON ECM. Excessive fuel dilusion EXCESSIVE FUEL DILUSION
Oct 15, 2018	Service	3,866	Clean Machine	
Oct 15, 2018	Service	3,866	Inspect Machine	

**\*NOTICE\* THE FOLLOWING DEFINITION IS A GENERAL** STATEMENT AND MAY NOT COVER ALL THE CHECKS THAT PERTAIN TO THE MODEL YOU ARE WORKING ON. ALWAYS FOLLOW SPECIFIC INSTRUCTIONS FOR THE SERVICE YOU ARE PERFORMING. -CLEAN AND INSPECT MAGNETIC SCREEN -CHANGE HYDRAULIC OIL AND FILTERS -CHANGE DIFFERENTIAL AND FINAL DRIVE OIL -CHANGE SWING DRIVE OIL (WHEN APPLICABLE) -ADJUST ENGINE VALVE LASH & CHECK ROTATORS -OBTAIN SCHEDULED OIL SAMPLES - THE RESULTS OF THESE WILL BE SENT TO YOU UPON COMPLETION -CHANGE ENGINE COOLANT IF RECOMMENDED OR CHECK COOLANT CONDITION AND ADD INHIBITOR IF NECESSARY -ADJUST ENGINE VALVE LASH AND CHECK ROTATORS -CLEAN AIR INTAKE PRE-CLEANER BOWL -LUBRICATE ALL GREASE FITTINGS -CHECK ALL FLUID LEVELS -CLEAN ENGINE CRANKCASE BREATHER - DRAIN WATER SEPARATOR -CLEAN PRIMARY FUEL FILTER AND REPLACE SECONDARY -PERFORM VISUAL OPERATIONAL INSPECTION CUSTOMER IS RESPONSIBLE FOR THE FOLLOWING: WHEN REQUIRED ITEMS, 10 HOUR OR DAILY, 50 HOUR OR WEEKLY, Perform Pm 4 Oct 15, 2018 3,866 Service 100 HOUR OR BI-MONTHLY SERVICE INTERVALS. TO INCLUDE ALL PARTS (I.E. ENGINE AND CAB AIR FILTERS, MAKEUP OIL AND G.E.T.), ADJUSTMENT OF BALL SOCKETS, CIRCLES, ADJUSTMENT AND REPACKING OF ROLLERS (WHEN APPLICABLE). **REPAIR PROCESS COMMENTS: PERFORMED 2000 HOUR** SERVICE. TOOK SAMPLES. CHANGED ALL FLUIDS AND FILTERS EXCEPT FOR COOLANT. COOLANT FREEZE POINT TESTED AT -40 DEGREES F. IN BOTH ENGINES. PULLED THE SCREENS IN BOTH FRONT AND REAR TRANSMISSIONS AS WELL AS THE MAGNETS. NOTICED SOME CLUTCH MATEIAL IN THE FRONT TRANSMISSION SUCTION SCREEN. CHECKED THE TRANSMISSION FILTER FOR ANY UNUSUAL WEAR AND OR METAL. THERE WAS NOTHING NOTICABLE AT THIS TIME. NOTIFIED MANAGEMENT OF THE FINDINGS. CHECKED AND CHANGED THE ENGINE AIR FILTERS. THE FRONT ENGINE AIR CLEANER COVER WAS NOT ORIGINALLY INSTALLED CORRECTLY WHICH BROKE THE TABS THAT KEEP THE FILTER IN PLACE. ORDERED AND INSTALLED A NEW COVER.

Oct 15, 2018	Service	3,866	Replace Gasket/reseal Final Drive	CUSTOMER COMPLAINT: BEFORE DOWNING MACHINE. REPAIR PROCESS COMMENTS: ASSISTED IN TROUBLE SHOOTING MACHINE TEST RAN MACHINE AFTER PARK BRAKE, BRAKE, AND DIFF LOCK PRESSURES WERE TESTED. MARKED WHERE THE HYDRUALIC OIL WAS ON THE TANK BEFORE RUNNING THE MACHINE. DID THE BRAKE TEST. RAN BRAKES LOADED AND UNLOADED. UTILIZED THE DIFF LOCK WHILE WORKING MACHINE COOL DOWN OVER NIGHT CHECKED THE FINALS. DIFF OIL LEVEL DID NOT MOVE, NOR DID THE HYDRUALIC OIL LEVEL IN CONCLUSION, IT IS POSSIBLE THAT THE FINALS WERE OVER FILLED), (AS THE ONES IN THE REAR WERE OVER FILLED), AND IT SALSO POSSIBLE THAT THE FINALS WERE OVER FILLED), (AS THE ONES IN THE REAR WERE OVER FILLED), AND IT SALSO POSSIBLE THAT THE OIL WAS CHECKED ON THE DIFF AT THE END OF THE DAY WHEN MOST OF THE OIL WOULD HAVE BEEN IN THE FINALS. THIS WOULD MAKE THE DIFF SEEM LOW AND NEED MORE OIL WHICH WOULD LEAD TO OVER FILLING. WHILE TEST RUNNING THE MACHINE, A HYDRUALIC LEAK WAS NOTICED FROM THE BOTTOM HYDRUALIC HOSE ON THE CUSHON HITCH. THE BOLTS TO THE CLAMPS WERE BACKED OUT. CLEANED UP THE AFFECTED AREA, REPLACED THE O- RING AND TIGHTENED THE CLAMP UP. CUSTOMER COMPLAINT: CAUSE OF FAILURE: RESULTANT DAMAGE: LEAKS EVIDENT ON FRONT RIGHT TIRE REPAIR PROCESS COMMENTS: REMOVED THE BELLY PAN. DISCONNECTED BRAKE LINE AND INSTALLED HAND PUMP WITH GAUGE. BUMPED BRAKES UP TO 850 PSI, CLOSED VALVE AND OBSERVED GAUGE TO SEE PRESSURE DROP. NO PRESSURE DROP. REPEATED PROCESS FOR OTHER SIDE BRAKE AND NO OBSERVED PRESSURE DROP AFTER 10 MINUTES. REMOVED TEST THE PARK BRAKE LINES AND HOOKED UP TEST EQUIPMENT. PUMPED UP BARK BRAKE TO 830 PSI. OBSERVED SUGHT DROP TO 830 PSI, BUT THEN THE GAUGE STOPPED. REMOVED TEST EQUIPMENT AND INSTALLED IT ON THE OTHER SID AND CHECKED AGAIN, WITH THE SAME RESULT, PRESSURED DUP TO 830 PSI, BUT THEN THE GAUGE STOPPED. REMOVED TEST EQUIPMENT AND DISSERVED A SLIGHT DROP TO 800 PSI AND THE GAUGE STOPPED. REMOVED TEST EQUIPMENT. AND INSTALLED FOUND A LEAK ON A HARD LINE FOR THE PARK BRAKE LINES AND HOOKED UP TEST EQUIPMENT AND PRONE TO CRACKING. M

RESULT, PRESSURED UP TO 830 PSI AND OBSERVED A SLIGHT
DROP TO 800 PSI AND THE GAUGE STOPPED. REMOVED TEST
EQUIPMENT AND INSTALLED BRAKE LINES. INSTALLED BELLY
PANS. CLEANED OFF THE TOP OF THE DIFFERENTIAL CASE
AND RAN MACHINE. FOUND A LEAK ON A HARD LINE FOR
THE BAIL SYSTEM. DRAINED HYDRAULIC TANK AND
REPLACED THE O-RING SEAL. RAN MACHINE AND CHECKED
FOR LEAK. STILL LEAKING. FOUND A SERVICE MAGAZINE FOR
THE LINE THIN AND PRONE TO CRACKING. MEDIA NUMBER
M0083551-00. Check for brake oil transfer into final drive
CHECK FOR BRAKE OIL TRANSFER INTO FINAL DRIVE BEFORE
DOWNING THE MACHINE.

Oct 15, 2018	Service	3,866	Add Parts Pm 4	
Aug 26, 2018	Service	4,488	Travel To/from Work Area	REPAIR PROCESS COMMENTS: 6-18-18 TRAVEL TO AND FRO JOB SITE REPAIR PROCESS COMMENTS: 6-19-18 TRAVEL TO AND FRO JOB SITE REPAIR PROCESS COMMENTS: 6-21-18 TRAVELED TO AND FROM JOB SITE REPAIR PROCESS COMMENTS: 6-22-18 TRAVELED TO AND FROM JOB SITE
Aug 26, 2018	Service	4,488	Machine	REPAIR PROCESS COMMENTS: 6-18-18 TROUBLE SHOOTING REAR ENGINE DPF SYSTEM REPAIR PROCESS COMMENTS: 6- 19-18 TROUBLE SHOOTING DEF PUMP ORDER PUMP AND FILTERS REPAIR PROCESS COMMENTS: 6-21-18. PULLED DPF SYSTEM OUT OF THE MACHINE TO CHANGE PUMP OUT. I HAD CHANGED OUT THE FILTER WHICH WAS CALLED OUT IN TROUBLE SHOOTING BUT E-1389 CODE CAME BACK REMOVED DEF LINE AND ACTIVATED PUMP. FOUND IT NOT PUMPING . FINISHED INSTALLING PUMP AND REGENNING SYSTEM T/s several codes T/S SEVERAL CODES
May 22, 2018	Service	3,555	Inspect Machine	Complete inspection - pictures as necessary COMPLETE INSPECTION - PICTURES AS NECESSARY
May 22, 2018	Service	3,555	Inspect Do Not Use - After Servic	
May 22, 2018	Service	3,555	Rental Steam Clean Machine	
May 22, 2018	Service	3,555	Straighten Crankcase Guard	CUSTOMER COMPLAINT: 3610 REPAIR PROCESS COMMENTS: TOOK GUARDS TO WELD SHOP TO USE BIG PRESS. STRAIGHTENED THE GUARDS. Straighten belly pan STRAIGHTEN BELLY PAN

May 22, 2018	Service	3,555	Replace Mirror	CUSTOMER COMPLAINT: 3610 REPAIR PROCESS COMMENTS: REPLACED BROKEN RIGHT SIDE MIRROR. Replace broken mirror on right side REPLACE BROKEN MIRROR ON RIGHT SIDE
May 22, 2018	Service	3,555	Repair Ejector Carrier Roller	CUSTOMER COMPLAINT: 3610 REPLACED MISSING BOTTOM EJECTOR ROLLER AND ADJUSTED AFTER WELDING REPAIR. Replace roller weld strip on bottom of REPLACE ROLLER WELD STRIP ON BOTTOM OF EJECTOR 1-1447299
May 22, 2018	Service	3,555	Replace Window Glass	Replace front windshield - foothills- REPLACE FRONT WINDSHIELD - FOOTHILLS- 4.20M-5P6605 SEAL
May 22, 2018	Service	3,555	Repair Frame	Repair both front dented bumpers
May 22, 2018	Service	3,555	Replace Handrail(s)	CUSTOMER COMPLAINT: 3610 REPAIR PROCESS COMMENTS: REPLACED RIGHT REAR LADDER. Replace right rear hand rail because it is bent REPLACE RIGHT REAR HAND RAIL BECAUSE IT IS BENT
May 22, 2018	Service	3,555	Straighten Fender	3610 REPAIR PROCESS COMMENTS: REMOVED INSTALLED BOTH FRONT FENDERS. REPOSITIONED BOTH BOTTOM SIDE FENDER MOUNTS. Fender bracket bent FENDER BRACKET BENT
May 22, 2018	Service	3,555	Replace Owning & Operating Info	CUSTOMER COMPLAINT: 3610 REPAIR PROCESS COMMENTS: INSTALLED O&M MANUAL AND SAFETY MANUAL. Replace missing o and m guide REPLACE MISSING O AND M GUIDE
May 22, 2018	Service	3,555	Inspect Machine	Complete inspection - pictures as necessary COMPLETE INSPECTION - PICTURES AS NECESSARY
May 22, 2018	Service	3,555	Check Seat Belt	CUSTOMER COMPLAINT: 3610 REPAIR PROCESS COMMENTS: REPLACED SEAT BELT. Check seat belt / if expired or in poor shape CHECK SEAT BELT / IF EXPIRED OR IN POOR SHAPE REPLACE
May 22, 2018	Service	3,555	Repair Ejector Carrier Roller	CUSTOMER COMPLAINT: 3610 REPLACED MISSING BOTTOM EJECTOR ROLLER AND ADJUSTED AFTER WELDING REPAIR. Replace roller weld strip on bottom of REPLACE ROLLER WELD STRIP ON BOTTOM OF EJECTOR 1-1447299
May 22, 2018	Service	3,555	Replace Ground Engaging Tl (get)	CUSTOMER COMPLAINT: 3610 REPAIR PROCESS COMMENTS: TURNED EDGES. Replace bucket teeth / edges if needed REPLACE BUCKET TEETH / EDGES IF NEEDED

May 22, 2018	Service	3,555	Recondition Bowl Lift Cylinder	RECON RIGHT SIDE BOWL LIFT CYLINDER CAUSE OF FAILURE: ROD DAMAGE RESULTANT DAMAGE: ROD DAMAGE, CONTAMINATION, SCORES IN BARREL. REPAIR PROCESS COMMENTS: DISASSEMBLED AND INSPECTED CYLINDER, ROD IS PITTED AND WILL NOT MAKE REUSE. SENSOR IS SEIZED IN BARREL TO REMOVE SCORING, QUOTED PARTS, CLEANED AND STORED OLD PARTS. 4-26-18 5396 ASSEMBLED CYLINDER WITH SEALS AND NEW SENSOR. TORQUED PISTON NUT TO 2500 FT LBS WITH LOCTITE. TORQUED HEAD BOLTS TO 600 FT LBS WITH ANTI-SEIZE. TESTED CYLINDER AT 3000 PSI WITH NO DRIFTS, NO LEAKS. Recon right side bowl lift cylinder RECON RIGHT SIDE BOWL LIFT CYLINDER
May 22, 2018	Service	3,555	Straighten Fender	3610 REPAIR PROCESS COMMENTS: REMOVED INSTALLED BOTH FRONT FENDERS. REPOSITIONED BOTH BOTTOM SIDE FENDER MOUNTS. Fender bracket bent FENDER BRACKET BENT
May 22, 2018	Service	3,555	Perform When Required	PERFORM ONLY THE FOLLOWING ITEMS THAT ARE NEEDED. THESE ARE TARGET HOURS ONLY. SERVICE AIR FILTERS (CAB & ENGINE) 0.5 HOURS GREASE MACHINE 1.0 HOURS CHECK FLUID LEVELS 0.5 HOURS ADJUST TIRE PRESSURE 0.5 HOURS ADJUST TRACKS 0.5 HOURS CHECK WEAR ANALYSIS 0.5 HOURS CUSTOMER COMPLAINT: 3610 REPAIR PROCESS COMMENTS: PERFORMED DAILY MAINTENANCE ON MACHINE. REPLACED FRONT WIPER BLADE. Daily maintenance items. DAILY MAINTENANCE ITEMS. SEE W/O NOTES FOR DETAILS.
May 22, 2018	Service	3,555	Remove & Install Draft Frame	CUSTOMER COMPLAINT: 3610 REPAIR PROCESS COMMENTS: REMOVED INSTALLED DRAFT ARM TRUNNION CAPS. R&i trunnion caps on side of bowl
May 22, 2018	Service	3,555	Repair Frame	Repair both front dented bumpers
May 22, 2018	Service	3,555	Replace Gauges & Indicators	CUSTOMER COMPLAINT: 3610 REPAIR PROCESS COMMENTS: REPLACED CAB FILTER COVER HARDWARES. Replace missing cab filter cover hardware REPLACE MISSING CAB FILTER COVER HARDWARE
May 22, 2018	Service	3,555	Repair Cylinder Mount/crosstube	CUSTOMER COMPLAINT: 3610 REPAIR PROCESS COMMENTS: REMOVED BROKEN RIGHT SIDE BAIL PIN RETAINER BOLT. Retainer bold for pin on right side of bail is BROKEN
May 22, 2018	Service	3,555	Replace Handrail(s)	CUSTOMER COMPLAINT: 3610 REPAIR PROCESS COMMENTS: REPLACED RIGHT REAR LADDER. Replace right rear hand rail because it is bent REPLACE RIGHT REAR HAND RAIL BECAUSE IT IS BENT

May 22, 2018	Service	3,555	Repair Compartment Door	CUSTOMER COMPLAINT: 3610 REPLACED MISSING FRONT HOOD LATCH. Replace missing front hood latch REPLACE MISSING FRONT HOOD LATCH
May 22, 2018	Service	3,555	Replace Hood	CUSTOMER COMPLAINT: 3610 REPAIR PROCESS COMMENTS: REPLACED MISSING DEF COVER SEAL AND MISSING HARDWARES. Replace missing cover on def tank and hardware REPLACE MISSING COVER ON DEF TANK AND HARDWARE
May 22, 2018	Service	3,555	Remove & Install Ejector	CUSTOMER COMPLAINT: 3610 REPAIR PROCESS COMMENTS: REMOVED INSTALLED EJECTOR FOR REPAIR. REPLACED BROKEN BUSHING ON APRON LIFT LINK. REPLACED BOTH EJECTOR GUIDE ROLLERS. THE ROLLERS WERE WORN AND BEARINGS WERE SHOT. Remove and install ejector for welding. REMOVE AND INSTALL EJECTOR FOR WELDING.
May 22, 2018	Service	3,555	Add Parts Bowl Lift Cylinder	Add parts ADD PARTS REPLACE BENT SENSOR WITH NEW RECHROME ROD - PITTED THREW CHROME
May 22, 2018	Service	3,555	Repair Frame	Repair or replace rear belly pan hangers REPAIR OR REPLACE REAR BELLY PAN HANGERS
May 22, 2018	Service	3,555	Straighten Crankcase Guard	CUSTOMER COMPLAINT: 3610 REPAIR PROCESS COMMENTS: TOOK GUARDS TO WELD SHOP TO USE BIG PRESS. STRAIGHTENED THE GUARDS. Straighten belly pan STRAIGHTEN BELLY PAN
May 22, 2018	Service	3,555	Check Electronic Mon Sys/panel	3610 REPAIR PROCESS COMMENTS: CHECKED/ CLEARED CODES. AFTER REMOVED BOTTOM GUARDS MACHINE ECM LOGGING PARK BRAKE ACTIVE Check and clear codes CHECK AND CLEAR CODES
May 22, 2018	Service	3,555	Troubleshoot Parking Brake	CUSTOMER COMPLAINT: 3610 REPAIR PROCESS COMMENTS: TRANSMISSION ECM HAD ACTIVE CODE 2976-3 PARKING BRAKE OIL PRESSURE SENSOR : VOLTAGE ABOVE NORMAL AND 2987-3 BRAKE CHARGE PRESSURE SENSOR #1 : PRESSURE SENSOR WAS NOT GETTING POWER FROM ECM. CHARGE PRESSURE SENSOR NOT GETTING RIGHT SIGNAL TO ECM. CHECKED WIRING. PARK PRESSURE SENSOR POWER AND SIGNAL WIRES WAS OPEN AND CHATGE PRESSURE SENSOR HAS BAD SIGNAL WIRE. RUN JUMPER WIRES TO BOTH SENSORS AND CODE NO LONGER ACTIVE. BRAKE HARNESS HAS OPEN. REMOVED HARNESS FOUND CUT ON HARNESS. ADVISE TO REPLACE HARNESS. R/F NOT BUYING HARNESS DUE TO BACK ORDER. REPAIRED HARNESS. INSTALLED HARNESS AND CLEARED CODES. CODES NO LONGER ACTIVE. CLEANED BRAKE VALVE AREA. IT WAS COVERED DIRT AND GREASE. Troubleshoot and repair for active 2976 and 2978 TROUBLESHOOT AND REPAIR FOR ACTIVE 2976 AND 2978 CODES FOR BRAKE SYSTEM

May 22, 2018	Service	3,555	Remove & Install/replace Compartment Door	CUSTOMER COMPLAINT: 3610 REPAIR PROCESS COMMENTS: REMOVED FRONT HOOD BROKEN BOLT REPLACED THE BOLT. Replace broken front hood mounting hardware REPLACE BROKEN FRONT HOOD MOUNTING HARDWARE
May 22, 2018	Service	3,555	Machine/grind/mill Draft Frame	REPAIR PROCESS COMMENTS: MILLED OFF .125 FROM CAPS AS MARKED. 5341 03/08/2018 Shave trunnion caps on draft frame SHAVE TRUNNION CAPS ON DRAFT FRAME
May 22, 2018	Service	3,555	Rental Steam Clean Machine	
May 22, 2018	Service	3,555	Inspect Do Not Use - After Servic	
May 22, 2018	Service	3,555	Replace Mirror	CUSTOMER COMPLAINT: 3610 REPAIR PROCESS COMMENTS: REPLACED BROKEN RIGHT SIDE MIRROR. Replace broken mirror on right side REPLACE BROKEN MIRROR ON RIGHT SIDE
May 22, 2018	Service	3,555	Straighten Drivetrn/trans Oil Filler	CUSTOMER COMPLAINT: 3610 REPAIR PROCESS COMMENTS: REMOVED/ INSTALLED FRONT DIFFERENTIAL DIPSTICK TUBE BRACKET AND STRAIGHTENED. Straighten front diff. dipstick mount bracket
May 22, 2018	Service	3,555	Repair Radio	CUSTOMER COMPLAINT: 3610 REPAIR PROCESS COMMENTS: THE WAY IN. REPLACED RADIO. Radio mount face missing RADIO MOUNT FACE MISSING
May 22, 2018	Service	3,555	Repair Wiring Harness	CUSTOMER COMPLAINT: REPLACED DOME LIGHT LAMP AND REINSTALLED TO HEADLINER. Dome light stuck in head liner.needs mounted. DOME LIGHT STUCK IN HEAD LINER.NEEDS MOUNTED.
May 22, 2018	Service	3,555	Replace Window Glass	Replace front windshield - foothills- REPLACE FRONT WINDSHIELD - FOOTHILLS- 4.20M-5P6605 SEAL
May 22, 2018	Service	3,555	Remove & Install Bowl Lift Cylinder	CUSTOMER COMPLAINT: 3610 REPAIR PROCESS COMMENTS: REMOVED INSTALLED RIGHT SIDE LIFT CYLINDER. R&i right side bowl lift cylinder
May 22, 2018	Service	3,555	Install Tires	Replace tires-mixmatched and worn out. REPLACE TIRES- MIXMATCHED AND WORN OUT.
May 22, 2018	Service	3,555	Repair Engine Cooling System	CUSTOMER COMPLAINT: 3610 REPAIR PROCESS COMMENTS: PRESSURE TESTED FRONT ENGINE COOLANT SYSTEM AND FOUND LEAK ON COOLANT TANK HOSES. DRAINED COOLANT TANK. T/s leak coolant leak on front engine T/S LEAK COOLANT LEAK ON FRONT ENGINE

May 21, 2018	Service	3,555	Inspect Do Not Use - After Servic	
May 21, 2018	Service	3,555	Inspect Machine	Complete inspection - pictures as necessary COMPLETE INSPECTION - PICTURES AS NECESSARY
May 21, 2018	Service	3,555	Rental Steam Clean Machine	
May 21, 2018	Service	3,555	Repair Frame	Repair both front dented bumpers
May 21, 2018	Service	3,555	Replace Window Glass	Replace front windshield - foothills- REPLACE FRONT WINDSHIELD - FOOTHILLS- 4.20M-5P6605 SEAL
May 21, 2018	Service	3,555	Replace Mirror	CUSTOMER COMPLAINT: 3610 REPAIR PROCESS COMMENTS: REPLACED BROKEN RIGHT SIDE MIRROR. Replace broken mirror on right side REPLACE BROKEN MIRROR ON RIGHT SIDE
May 21, 2018	Service	3,555	Repair Ejector Carrier Roller	CUSTOMER COMPLAINT: 3610 REPLACED MISSING BOTTOM EJECTOR ROLLER AND ADJUSTED AFTER WELDING REPAIR. Replace roller weld strip on bottom of REPLACE ROLLER WELD STRIP ON BOTTOM OF EJECTOR 1-1447299
May 21, 2018	Service	3,555	Straighten Fender	3610 REPAIR PROCESS COMMENTS: REMOVED INSTALLED BOTH FRONT FENDERS. REPOSITIONED BOTH BOTTOM SIDE FENDER MOUNTS. Fender bracket bent FENDER BRACKET BENT
May 21, 2018	Service	3,555	Straighten Crankcase Guard	CUSTOMER COMPLAINT: 3610 REPAIR PROCESS COMMENTS: TOOK GUARDS TO WELD SHOP TO USE BIG PRESS. STRAIGHTENED THE GUARDS. Straighten belly pan STRAIGHTEN BELLY PAN
May 21, 2018	Service	3,555	Repair Wiring Harness	CUSTOMER COMPLAINT: REPLACED DOME LIGHT LAMP AND REINSTALLED TO HEADLINER. Dome light stuck in head liner.needs mounted. DOME LIGHT STUCK IN HEAD LINER.NEEDS MOUNTED.
May 21, 2018	Service	3,555	Perform When Required	PERFORM ONLY THE FOLLOWING ITEMS THAT ARE NEEDED. THESE ARE TARGET HOURS ONLY. SERVICE AIR FILTERS (CAB & ENGINE) 0.5 HOURS GREASE MACHINE 1.0 HOURS CHECK FLUID LEVELS 0.5 HOURS ADJUST TIRE PRESSURE 0.5 HOURS ADJUST TRACKS 0.5 HOURS CHECK WEAR ANALYSIS 0.5 HOURS CUSTOMER COMPLAINT: 3610 REPAIR PROCESS COMMENTS: PERFORMED DAILY MAINTENANCE ON MACHINE. REPLACED FRONT WIPER BLADE. Daily maintenance items. DAILY MAINTENANCE ITEMS. SEE W/O NOTES FOR DETAILS.

May 21, 2018	Service	3,555	Machine/grind/mill Draft Frame	REPAIR PROCESS COMMENTS: MILLED OFF .125 FROM CAPS AS MARKED. 5341 03/08/2018 Shave trunnion caps on draft frame SHAVE TRUNNION CAPS ON DRAFT FRAME
May 21, 2018	Service	3,555	Repair Compartment Door	CUSTOMER COMPLAINT: 3610 REPLACED MISSING FRONT HOOD LATCH. Replace missing front hood latch REPLACE MISSING FRONT HOOD LATCH
May 21, 2018	Service	3,555	Add Parts Bowl Lift Cylinder	Add parts ADD PARTS REPLACE BENT SENSOR WITH NEW RECHROME ROD - PITTED THREW CHROME
May 21, 2018	Service	3,555	Remove & Install Ejector	CUSTOMER COMPLAINT: 3610 REPAIR PROCESS COMMENTS: REMOVED INSTALLED EJECTOR FOR REPAIR. REPLACED BROKEN BUSHING ON APRON LIFT LINK. REPLACED BOTH EJECTOR GUIDE ROLLERS. THE ROLLERS WERE WORN AND BEARINGS WERE SHOT. Remove and install ejector for welding. REMOVE AND INSTALL EJECTOR FOR WELDING.
May 21, 2018	Service	3,555	Troubleshoot Parking Brake	CUSTOMER COMPLAINT: 3610 REPAIR PROCESS COMMENTS: TRANSMISSION ECM HAD ACTIVE CODE 2976-3 PARKING BRAKE OIL PRESSURE SENSOR : VOLTAGE ABOVE NORMAL AND 2987-3 BRAKE CHARGE PRESSURE SENSOR #1 : PRESSURE SENSOR WAS NOT GETTING POWER FROM ECM. CHARGE PRESSURE SENSOR NOT GETTING RIGHT SIGNAL TO ECM. CHECKED WIRING. PARK PRESSURE SENSOR POWER AND SIGNAL WIRES WAS OPEN AND CHATGE PRESSURE SENSOR HAS BAD SIGNAL WIRE. RUN JUMPER WIRES TO BOTH SENSORS AND CODE NO LONGER ACTIVE. BRAKE HARNESS HAS OPEN. REMOVED HARNESS FOUND CUT ON HARNESS. ADVISE TO REPLACE HARNESS. R/F NOT BUYING HARNESS DUE TO BACK ORDER. REPAIRED HARNESS. INSTALLED HARNESS AND CLEARED CODES. CODES NO LONGER ACTIVE. CLEANED BRAKE VALVE AREA. IT WAS COVERED DIRT AND GREASE. Troubleshoot and repair for active 2976 and 2978 TROUBLESHOOT AND REPAIR FOR ACTIVE 2976 AND 2978 CODES FOR BRAKE SYSTEM
May 21, 2018	Service	3,555	Repair Frame	Repair both front dented bumpers
May 21, 2018	Service	3,555	Replace Hood	CUSTOMER COMPLAINT: 3610 REPAIR PROCESS COMMENTS: REPLACED MISSING DEF COVER SEAL AND MISSING HARDWARES. Replace missing cover on def tank and hardware REPLACE MISSING COVER ON DEF TANK AND HARDWARE
May 21, 2018	Service	3,555	Replace Ground Engaging Tl (get)	CUSTOMER COMPLAINT: 3610 REPAIR PROCESS COMMENTS: TURNED EDGES. Replace bucket teeth / edges if needed REPLACE BUCKET TEETH / EDGES IF NEEDED

May 21, 2018	Service	3,555	Replace Handrail(s)	CUSTOMER COMPLAINT: 3610 REPAIR PROCESS COMMENTS: REPLACED RIGHT REAR LADDER. Replace right rear hand rail because it is bent REPLACE RIGHT REAR HAND RAIL BECAUSE IT IS BENT
May 21, 2018	Service	3,555	Remove & Install Bowl Lift Cylinder	CUSTOMER COMPLAINT: 3610 REPAIR PROCESS COMMENTS: REMOVED INSTALLED RIGHT SIDE LIFT CYLINDER. R&i right side bowl lift cylinder
May 21, 2018	Service	3,555	Straighten Fender	3610 REPAIR PROCESS COMMENTS: REMOVED INSTALLED BOTH FRONT FENDERS. REPOSITIONED BOTH BOTTOM SIDE FENDER MOUNTS. Fender bracket bent FENDER BRACKET BENT
May 21, 2018	Service	3,555	Rental Steam Clean Machine	
May 21, 2018	Service	3,555	Remove & Install/replace Compartment Door	CUSTOMER COMPLAINT: 3610 REPAIR PROCESS COMMENTS: REMOVED FRONT HOOD BROKEN BOLT REPLACED THE BOLT. Replace broken front hood mounting hardware REPLACE BROKEN FRONT HOOD MOUNTING HARDWARE
May 21, 2018	Service	3,555	Check Electronic Mon Sys/panel	3610 REPAIR PROCESS COMMENTS: CHECKED/ CLEARED CODES. AFTER REMOVED BOTTOM GUARDS MACHINE ECM LOGGING PARK BRAKE ACTIVE Check and clear codes CHECK AND CLEAR CODES
May 21, 2018	Service	3,555	Replace Owning & Operating Info	CUSTOMER COMPLAINT: 3610 REPAIR PROCESS COMMENTS: INSTALLED O&M MANUAL AND SAFETY MANUAL. Replace missing o and m guide REPLACE MISSING O AND M GUIDE
May 21, 2018	Service	3,555	Repair Radio	CUSTOMER COMPLAINT: 3610 REPAIR PROCESS COMMENTS: THE WAY IN. REPLACED RADIO. Radio mount face missing RADIO MOUNT FACE MISSING
May 21, 2018	Service	3,555	Repair Frame	Repair or replace rear belly pan hangers REPAIR OR REPLACE REAR BELLY PAN HANGERS
May 21, 2018	Service	3,555	Install Tires	Replace tires-mixmatched and worn out. REPLACE TIRES- MIXMATCHED AND WORN OUT.
May 21, 2018	Service	3,555	Straighten Crankcase Guard	CUSTOMER COMPLAINT: 3610 REPAIR PROCESS COMMENTS: TOOK GUARDS TO WELD SHOP TO USE BIG PRESS. STRAIGHTENED THE GUARDS. Straighten belly pan STRAIGHTEN BELLY PAN
May 21, 2018	Service	3,555	Inspect Do Not Use - After Servic	

May 21, 2018	Service	3,555	Remove & Install Draft Frame	CUSTOMER COMPLAINT: 3610 REPAIR PROCESS COMMENTS: REMOVED INSTALLED DRAFT ARM TRUNNION CAPS. R&i trunnion caps on side of bowl
May 21, 2018	Service	3,555	Check Seat Belt	CUSTOMER COMPLAINT: 3610 REPAIR PROCESS COMMENTS: REPLACED SEAT BELT. Check seat belt / if expired or in poor shape CHECK SEAT BELT / IF EXPIRED OR IN POOR SHAPE REPLACE
May 21, 2018	Service	3,555	Replace Window Glass	Replace front windshield - foothills- REPLACE FRONT WINDSHIELD - FOOTHILLS- 4.20M-5P6605 SEAL
May 21, 2018	Service	3,555	Repair Ejector Carrier Roller	CUSTOMER COMPLAINT: 3610 REPLACED MISSING BOTTOM EJECTOR ROLLER AND ADJUSTED AFTER WELDING REPAIR. Replace roller weld strip on bottom of REPLACE ROLLER WELD STRIP ON BOTTOM OF EJECTOR 1-1447299
May 21, 2018	Service	3,555	Replace Gauges & Indicators	CUSTOMER COMPLAINT: 3610 REPAIR PROCESS COMMENTS: REPLACED CAB FILTER COVER HARDWARES. Replace missing cab filter cover hardware REPLACE MISSING CAB FILTER COVER HARDWARE
May 21, 2018	Service	3,555	Recondition Bowl Lift Cylinder	RECON RIGHT SIDE BOWL LIFT CYLINDER CAUSE OF FAILURE: ROD DAMAGE RESULTANT DAMAGE: ROD DAMAGE, CONTAMINATION, SCORES IN BARREL. REPAIR PROCESS COMMENTS: DISASSEMBLED AND INSPECTED CYLINDER, ROD IS PITTED AND WILL NOT MAKE REUSE. SENSOR IS SEIZED IN BARREL TO REMOVE SCORING, QUOTED PARTS, CLEANED AND STORED OLD PARTS. 4-26-18 5396 ASSEMBLED CYLINDER WITH SEALS AND NEW SENSOR. TORQUED PISTON NUT TO 2500 FT LBS WITH LOCTITE. TORQUED HEAD BOLTS TO 600 FT LBS WITH ANTI-SEIZE. TESTED CYLINDER AT 3000 PSI WITH NO DRIFTS, NO LEAKS. Recon right side bowl lift cylinder RECON RIGHT SIDE BOWL LIFT CYLINDER
May 21, 2018	Service	3,555	Repair Cylinder Mount/crosstube	CUSTOMER COMPLAINT: 3610 REPAIR PROCESS COMMENTS: REMOVED BROKEN RIGHT SIDE BAIL PIN RETAINER BOLT. Retainer bold for pin on right side of bail is BROKEN
May 21, 2018	Service	3,555	Inspect Machine	Complete inspection - pictures as necessary COMPLETE INSPECTION - PICTURES AS NECESSARY
May 21, 2018	Service	3,555	Replace Mirror	CUSTOMER COMPLAINT: 3610 REPAIR PROCESS COMMENTS: REPLACED BROKEN RIGHT SIDE MIRROR. Replace broken mirror on right side REPLACE BROKEN MIRROR ON RIGHT SIDE

May 21, 2018	Service	3,555	Straighten Drivetrn/trans Oil Filler	CUSTOMER COMPLAINT: 3610 REPAIR PROCESS COMMENTS: REMOVED/ INSTALLED FRONT DIFFERENTIAL DIPSTICK TUBE BRACKET AND STRAIGHTENED. Straighten front diff. dipstick mount bracket
May 21, 2018	Service	3,555	Repair Engine Cooling System	CUSTOMER COMPLAINT: 3610 REPAIR PROCESS COMMENTS: PRESSURE TESTED FRONT ENGINE COOLANT SYSTEM AND FOUND LEAK ON COOLANT TANK HOSES. DRAINED COOLANT TANK. T/s leak coolant leak on front engine T/S LEAK COOLANT LEAK ON FRONT ENGINE
May 14, 2018	Service	3,555	Inspect Machine	Complete inspection - pictures as necessary COMPLETE INSPECTION - PICTURES AS NECESSARY
May 14, 2018	Service	3,555	Inspect Do Not Use - After Servic	
May 14, 2018	Service	3,555	Rental Steam Clean Machine	
May 14, 2018	Service	3,555	Straighten Crankcase Guard	CUSTOMER COMPLAINT: 3610 REPAIR PROCESS COMMENTS: TOOK GUARDS TO WELD SHOP TO USE BIG PRESS. STRAIGHTENED THE GUARDS. Straighten belly pan STRAIGHTEN BELLY PAN
May 14, 2018	Service	3,555	Replace Window Glass	Replace front windshield - foothills- REPLACE FRONT WINDSHIELD - FOOTHILLS- 4.20M-5P6605 SEAL
May 14, 2018	Service	3,555	Replace Mirror	CUSTOMER COMPLAINT: 3610 REPAIR PROCESS COMMENTS: REPLACED BROKEN RIGHT SIDE MIRROR. Replace broken mirror on right side REPLACE BROKEN MIRROR ON RIGHT SIDE
May 14, 2018	Service	3,555	Repair Ejector Carrier Roller	CUSTOMER COMPLAINT: 3610 REPLACED MISSING BOTTOM EJECTOR ROLLER AND ADJUSTED AFTER WELDING REPAIR. Replace roller weld strip on bottom of REPLACE ROLLER WELD STRIP ON BOTTOM OF EJECTOR 1-1447299
May 14, 2018	Service	3,555	Straighten Fender	3610 REPAIR PROCESS COMMENTS: REMOVED INSTALLED BOTH FRONT FENDERS. REPOSITIONED BOTH BOTTOM SIDE FENDER MOUNTS. Fender bracket bent FENDER BRACKET BENT
May 14, 2018	Service	3,555	Repair Frame	Repair both front dented bumpers

May 14, 2018	Service	3,555	Troubleshoot Parking Brake	CUSTOMER COMPLAINT: 3610 REPAIR PROCESS COMMENTS: TRANSMISSION ECM HAD ACTIVE CODE 2976-3 PARKING BRAKE OIL PRESSURE SENSOR : VOLTAGE ABOVE NORMAL AND 2987-3 BRAKE CHARGE PRESSURE SENSOR #1 : PRESSURE SENSOR WAS NOT GETTING POWER FROM ECM. CHARGE PRESSURE SENSOR NOT GETTING RIGHT SIGNAL TO ECM. CHECKED WIRING. PARK PRESSURE SENSOR POWER AND SIGNAL WIRES WAS OPEN AND CHATGE PRESSURE SENSOR HAS BAD SIGNAL WIRE. RUN JUMPER WIRES TO BOTH SENSORS AND CODE NO LONGER ACTIVE. BRAKE HARNESS HAS OPEN. REMOVED HARNESS FOUND CUT ON HARNESS. ADVISE TO REPLACE HARNESS. R/F NOT BUYING HARNESS DUE TO BACK ORDER. REPAIRED HARNESS. INSTALLED HARNESS AND CLEARED CODES. CODES NO LONGER ACTIVE. CLEANED BRAKE VALVE AREA. IT WAS COVERED DIRT AND GREASE. Troubleshoot and repair for active 2976 and 2978 TROUBLESHOOT AND REPAIR FOR ACTIVE 2976 AND 2978 CODES FOR BRAKE SYSTEM
May 14, 2018	Service	3,555	Repair Radio	CUSTOMER COMPLAINT: 3610 REPAIR PROCESS COMMENTS: THE WAY IN. REPLACED RADIO. Radio mount face missing RADIO MOUNT FACE MISSING
May 14, 2018	Service	3,555	Repair Cylinder Mount/crosstube	CUSTOMER COMPLAINT: 3610 REPAIR PROCESS COMMENTS: REMOVED BROKEN RIGHT SIDE BAIL PIN RETAINER BOLT. Retainer bold for pin on right side of bail is BROKEN
May 14, 2018	Service	3,555	Repair Compartment Door	CUSTOMER COMPLAINT: 3610 REPLACED MISSING FRONT HOOD LATCH. Replace missing front hood latch REPLACE MISSING FRONT HOOD LATCH
May 14, 2018	Service	3,555	Replace Hood	CUSTOMER COMPLAINT: 3610 REPAIR PROCESS COMMENTS: REPLACED MISSING DEF COVER SEAL AND MISSING HARDWARES. Replace missing cover on def tank and hardware REPLACE MISSING COVER ON DEF TANK AND HARDWARE
May 14, 2018	Service	3,555	Rental Steam Clean Machine	
May 14, 2018	Service	3,555	Replace Mirror	CUSTOMER COMPLAINT: 3610 REPAIR PROCESS COMMENTS: REPLACED BROKEN RIGHT SIDE MIRROR. Replace broken mirror on right side REPLACE BROKEN MIRROR ON RIGHT SIDE
May 14, 2018	Service	3,555	Repair Frame	Repair or replace rear belly pan hangers REPAIR OR REPLACE REAR BELLY PAN HANGERS

May 14, 2018	Service	3,555	Remove & Install/replace Compartment Door	CUSTOMER COMPLAINT: 3610 REPAIR PROCESS COMMENTS: REMOVED FRONT HOOD BROKEN BOLT REPLACED THE BOLT. Replace broken front hood mounting hardware REPLACE BROKEN FRONT HOOD MOUNTING HARDWARE
May 14, 2018	Service	3,555	Remove & Install Bowl Lift Cylinder	CUSTOMER COMPLAINT: 3610 REPAIR PROCESS COMMENTS: REMOVED INSTALLED RIGHT SIDE LIFT CYLINDER. R&i right side bowl lift cylinder
May 14, 2018	Service	3,555	Machine/grind/mill Draft Frame	REPAIR PROCESS COMMENTS: MILLED OFF .125 FROM CAPS AS MARKED. 5341 03/08/2018 Shave trunnion caps on draft frame SHAVE TRUNNION CAPS ON DRAFT FRAME
May 14, 2018	Service	3,555	Check Seat Belt	CUSTOMER COMPLAINT: 3610 REPAIR PROCESS COMMENTS: REPLACED SEAT BELT. Check seat belt / if expired or in poor shape CHECK SEAT BELT / IF EXPIRED OR IN POOR SHAPE REPLACE
May 14, 2018	Service	3,555	Straighten Crankcase Guard	CUSTOMER COMPLAINT: 3610 REPAIR PROCESS COMMENTS: TOOK GUARDS TO WELD SHOP TO USE BIG PRESS. STRAIGHTENED THE GUARDS. Straighten belly pan STRAIGHTEN BELLY PAN
May 14, 2018	Service	3,555	Repair Ejector Carrier Roller	CUSTOMER COMPLAINT: 3610 REPLACED MISSING BOTTOM EJECTOR ROLLER AND ADJUSTED AFTER WELDING REPAIR. Replace roller weld strip on bottom of REPLACE ROLLER WELD STRIP ON BOTTOM OF EJECTOR 1-1447299
May 14, 2018	Service	3,555	Repair Frame	Repair both front dented bumpers
May 14, 2018	Service	3,555	Inspect Machine	Complete inspection - pictures as necessary COMPLETE INSPECTION - PICTURES AS NECESSARY
May 14, 2018	Service	3,555	Replace Gauges & Indicators	CUSTOMER COMPLAINT: 3610 REPAIR PROCESS COMMENTS: REPLACED CAB FILTER COVER HARDWARES. Replace missing cab filter cover hardware REPLACE MISSING CAB FILTER COVER HARDWARE
May 14, 2018	Service	3,555	Add Parts Bowl Lift Cylinder	Add parts ADD PARTS REPLACE BENT SENSOR WITH NEW RECHROME ROD - PITTED THREW CHROME
May 14, 2018	Service	3,555	Replace Owning & Operating Info	CUSTOMER COMPLAINT: 3610 REPAIR PROCESS COMMENTS: INSTALLED O&M MANUAL AND SAFETY MANUAL. Replace missing o and m guide REPLACE MISSING O AND M GUIDE

May 14, 2018	Service	3,555	Remove & Install Ejector	CUSTOMER COMPLAINT: 3610 REPAIR PROCESS COMMENTS: REMOVED INSTALLED EJECTOR FOR REPAIR. REPLACED BROKEN BUSHING ON APRON LIFT LINK. REPLACED BOTH EJECTOR GUIDE ROLLERS. THE ROLLERS WERE WORN AND BEARINGS WERE SHOT. Remove and install ejector for welding. REMOVE AND INSTALL EJECTOR FOR WELDING.
May 14, 2018	Service	3,555	Repair Wiring Harness	CUSTOMER COMPLAINT: REPLACED DOME LIGHT LAMP AND REINSTALLED TO HEADLINER. Dome light stuck in head liner.needs mounted. DOME LIGHT STUCK IN HEAD LINER.NEEDS MOUNTED.
May 14, 2018	Service	3,555	Install Tires	Replace tires-mixmatched and worn out. REPLACE TIRES- MIXMATCHED AND WORN OUT.
May 14, 2018	Service	3,555	Replace Ground Engaging Tl (get)	CUSTOMER COMPLAINT: 3610 REPAIR PROCESS COMMENTS: TURNED EDGES. Replace bucket teeth / edges if needed REPLACE BUCKET TEETH / EDGES IF NEEDED
May 14, 2018	Service	3,555	Straighten Fender	3610 REPAIR PROCESS COMMENTS: REMOVED INSTALLED BOTH FRONT FENDERS. REPOSITIONED BOTH BOTTOM SIDE FENDER MOUNTS. Fender bracket bent FENDER BRACKET BENT
May 14, 2018	Service	3,555	Replace Handrail(s)	CUSTOMER COMPLAINT: 3610 REPAIR PROCESS COMMENTS: REPLACED RIGHT REAR LADDER. Replace right rear hand rail because it is bent REPLACE RIGHT REAR HAND RAIL BECAUSE IT IS BENT
May 14, 2018	Service	3,555	Remove & Install Draft Frame	CUSTOMER COMPLAINT: 3610 REPAIR PROCESS COMMENTS: REMOVED INSTALLED DRAFT ARM TRUNNION CAPS. R&i trunnion caps on side of bowl
May 14, 2018	Service	3,555	Recondition Bowl Lift Cylinder	RECON RIGHT SIDE BOWL LIFT CYLINDER CAUSE OF FAILURE: ROD DAMAGE RESULTANT DAMAGE: ROD DAMAGE, CONTAMINATION, SCORES IN BARREL. REPAIR PROCESS COMMENTS: DISASSEMBLED AND INSPECTED CYLINDER, ROD IS PITTED AND WILL NOT MAKE REUSE. SENSOR IS SEIZED IN BARREL TO REMOVE SCORING, QUOTED PARTS, CLEANED AND STORED OLD PARTS. 4-26-18 5396 ASSEMBLED CYLINDER WITH SEALS AND NEW SENSOR. TORQUED PISTON NUT TO 2500 FT LBS WITH LOCTITE. TORQUED HEAD BOLTS TO 600 FT LBS WITH ANTI-SEIZE. TESTED CYLINDER AT 3000 PSI WITH NO DRIFTS, NO LEAKS. Recon right side bowl lift cylinder RECON RIGHT SIDE BOWL LIFT CYLINDER
May 14, 2018	Service	3,555	Repair Engine Cooling System	CUSTOMER COMPLAINT: 3610 REPAIR PROCESS COMMENTS: PRESSURE TESTED FRONT ENGINE COOLANT SYSTEM AND FOUND LEAK ON COOLANT TANK HOSES. DRAINED COOLANT TANK. T/s leak coolant leak on front engine T/S LEAK COOLANT LEAK ON FRONT ENGINE

May 14, 2018	Service	3,555	Perform When Required	PERFORM ONLY THE FOLLOWING ITEMS THAT ARE NEEDED. THESE ARE TARGET HOURS ONLY. SERVICE AIR FILTERS (CAB & ENGINE) 0.5 HOURS GREASE MACHINE 1.0 HOURS CHECK FLUID LEVELS 0.5 HOURS ADJUST TIRE PRESSURE 0.5 HOURS ADJUST TRACKS 0.5 HOURS CHECK WEAR ANALYSIS 0.5 HOURS CUSTOMER COMPLAINT: 3610 REPAIR PROCESS COMMENTS: PERFORMED DAILY MAINTENANCE ON MACHINE. REPLACED FRONT WIPER BLADE. Daily maintenance items. DAILY MAINTENANCE ITEMS. SEE W/O NOTES FOR DETAILS.
May 14, 2018	Service	3,555	Straighten Drivetrn/trans Oil Filler	CUSTOMER COMPLAINT: 3610 REPAIR PROCESS COMMENTS: REMOVED/ INSTALLED FRONT DIFFERENTIAL DIPSTICK TUBE BRACKET AND STRAIGHTENED. Straighten front diff. dipstick mount bracket
May 14, 2018	Service	3,555	Inspect Do Not Use - After Servic	
May 14, 2018	Service	3,555	Replace Window Glass	Replace front windshield - foothills- REPLACE FRONT WINDSHIELD - FOOTHILLS- 4.20M-5P6605 SEAL
May 14, 2018	Service	3,555	Check Electronic Mon Sys/panel	3610 REPAIR PROCESS COMMENTS: CHECKED/ CLEARED CODES. AFTER REMOVED BOTTOM GUARDS MACHINE ECM LOGGING PARK BRAKE ACTIVE Check and clear codes CHECK AND CLEAR CODES
May 09, 2018	Service	0	Load/unload Machine	
Feb 26, 2018	Service	0	Load/unload Machine	
Jan 25, 2018	Service	3,396	Add Parts Pm 3	

Jan 25, 2018	Service	3,396	Perform Pm 3	*NOTICE* The following definition is a general statement And may not cover all the checks that pertain to The model you are working on. always follow Caterpillar operational maintenance manual for Specific instructions for the service you are PERFORMINGchange engine oil and filter -change transmission oil and filter -clean and inspect magnetic screen -change hydraulic filters -obtain scheduled oil samples - the results of These will be sent to you upon completion -clean air intake pre-cleaner bowl -lubricate all grease fittings -drain water separator -CHECK COOLANT CONDITION AND ADD INHIBITOR IF Necessary -check all fluid levels -clean engine crankcase breather -clean primary fuel filter and replace secondary -perform visual operational inspection -change swing drive oil (when applicable) ************************************
Dec 28, 2017	Service	3,230	Travel To/from Work Area	

Dec 28, 2017	Service	3,230	Troubleshoot Wiring Harness	12/26/17 HOOKED UP TO MACHINE AND FOUND AN ACTIVE CODE FOR 5 v supply on the rear engine and it is locked Out of regen. hooked up to rear engine and Started disconnecting sensors. found that the egr Intake pressure sensor was the culprit. found That the sensor is ok and but the harness is Causing the code when it is wiggled in just the RIGHT WAY. THERE IS ALSO ANOTHER HARNES THAT IS Cut but not related to the engine codes. i was Able to get the harness in the right place to get Engine to regen enough that it is no longer Locked out of regen. will return next day to ATTEMPT TO REPAIR HARNESSES. 12/27/17 Unplugged egr sensor and cut zip ties holding Harness. found that harness is rubbing on metal Bracket it was zip tied to. removed sheathing AROUND WIRES AND MONITORED CODE STATUS AS WIGGLED Harness. with harness cut loose could not get Code to come on. used electrical tape to retape Harness and replugged sensor. code no longer Active. zip tied harness in a different location TO PREVENT RUBBING. REPAIRED HARNESS TO BOWL Cylinder position sensor. hooked up et and found NO CODES ACTIVE. ANOTHER EVENT FOR REAR ENGINE High dpf soot load was active. let machine do a PARKED REGEN. FOUND THAT THE FRONT ENGINE WOULD Not start, the batteries are somewhat dead. i was Able to jump machine with another scraper on Site. suspect that the either canister on the Machine is empty as it took quite a while to get Started. once machine started, had both engine Regen down to 0% soot load. let customer run Machine to verify repairs. custsomer is happy With machine. released machine to customer. T/s no regen T/S NO REGEN Machine down
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Dec 28, 2017	Service	3,230	Troubleshoot Wiring Harness	12/26/17 HOOKED UP TO MACHINE AND FOUND AN ACTIVE CODE FOR 5 v supply on the rear engine and it is locked Out of regen. hooked up to rear engine and Started disconnecting sensors. found that the egr Intake pressure sensor was the culprit. found That the sensor is ok and but the harness is Causing the code when it is wiggled in just the RIGHT WAY. THERE IS ALSO ANOTHER HARNES THAT IS Cut but not related to the engine codes. i was Able to get the harness in the right place to get Engine to regen enough that it is no longer Locked out of regen. will return next day to ATTEMPT TO REPAIR HARNESSES. 12/27/17 Unplugged egr sensor and cut zip ties holding Harness. found that harness is rubbing on metal Bracket it was zip tied to. removed sheathing AROUND WIRES AND MONITORED CODE STATUS AS WIGGLED Harness. with harness cut loose could not get Code to come on. used electrical tape to retape Harness and replugged sensor. code no longer Active. zip tied harness in a different location TO PREVENT RUBBING. REPAIRED HARNESS TO BOWL Cylinder position sensor. hooked up et and found NO CODES ACTIVE. ANOTHER EVENT FOR REAR ENGINE High dpf soot load was active. let machine do a PARKED REGEN. FOUND THAT THE FRONT ENGINE WOULD Not start, the batteries are somewhat dead. i was Able to jump machine with another scraper on Site. suspect that the either canister on the Machine is empty as it took quite a while to get Started. once machine started, had both engine Regen down to 0% soot load. let customer run Machine to verify repairs. custsomer is happy With machine. released machine to customer. T/s no regen T/S NO REGEN Machine down
Dec 28, 2017	Service	3,230	Travel To/from Work Area	
Dec 26, 2017	Parts			
Dec 13, 2017	Service	3,092	Install Machine	12/4/17 7067 THE BOTTOM GUARD FROM BEHIND THE ENGINE FELL OFF Cause of failure: The bolts fell out from being loose Resultant damage: Bottom guard fell off Repair process comments: Filled out required safety paper work. looked Under the machine, and the bolts had backed out Of mounting locations, and bottom guard fell off. Looked up new mounting hard ware, and ordered, Had todds deliver them. installed the two lifting Chains under the bottom guard, and connected to Crane on service truck. raised the

hoist, and was Able to install the bottom guard. while waiting For the new hard ware, robbed two bolts, adn Bushings from the front guards, and installed. TIGHTENED TO 220 LBFT. REMOVED THE CHAINS, AND Waited for2 hours for parts, installed the new Bolts, and bushings, tightened to 220 lbft. Picked up work area, and tools called customer, And released the machine. Install belly pan on machine Install belly pan on

machine

Dec 13, 2017	Service	3,092	Travel To/from Work Area	Customer complaint: Travel to and from the machine CAUSE OF FAILURE: N/a Resultant damage: N/a Repair process comments: Travell to and from the machine
Dec 13, 2017	Service	3,092	Install Machine	12/4/17 7067 THE BOTTOM GUARD FROM BEHIND THE ENGINE FELL OFF Cause of failure: The bolts fell out from being loose Resultant damage: Bottom guard fell off Repair process comments: Filled out required safety paper work. looked Under the machine, and the bolts had backed out Of mounting locations, and bottom guard fell off. Looked up new mounting hard ware, and ordered, Had todds deliver them. installed the two lifting Chains under the bottom guard, and connected to Crane on service truck. raised the hoist, and was Able to install the bottom guard. while waiting For the new hard ware, robbed two bolts, adn Bushings from the front guards, and installed. TIGHTENED TO 220 LBFT. REMOVED THE CHAINS, AND Waited for2 hours for parts, installed the new Bolts, and bushings, tightened to 220 lbft. Picked up work area, and tools called customer, And released the machine. Install belly pan on machine Install belly pan on machine
Dec 13, 2017	Service	3,092	Travel To/from Work Area	Customer complaint: Travel to and from the machine CAUSE OF FAILURE: N/a Resultant damage: N/a Repair process comments: Travell to and from the machine
Dec 08, 2017	Parts			
Dec 04, 2017	Service	3,043	Load/unload Machine	
Dec 04, 2017	Service	3,043	Rental Machine	* fuel only - no labor * * fuel only - no labor *
Dec 04, 2017	Service	3,043	Inspect Do Not Use - After Servic	
Dec 04, 2017	Service	3,043	Inspect Machine	Complete inspection - pictures if necessary Complete inspection - pictures if necessary
Sep 05, 2017	Service	2,931	Travel To/from Work Area	Customer complaint: 8/25/17 #7784 Travel to from machine Repair process comments: TRAVEL FROM HOBBS ON HWY 18 TO HWY176. TRAVEL ON Hwy 176 through andrews to big springs. take County road 21 to location of machine. Travel same route back to hobbs after repair. Machine is located: big springs texas Machine is located: big springs texas

Sep 05, 2017	Service	2,931	Hydraulic System	Customer complaint: 8/25/17 #7784 Ts transmission Repair process comments: Customer states rear transmission making metal. Check oil level on the machine. remove suction Screen, all clean. remove transmission oil filter AND CUT OPEN. NO METAL FOUND. INSTALL NEW FILTER. Connect computer and no fault codes. release Machine to customer. Troubleshoot metal in hydrualic filters Troubleshoot metal in hydrualic filters
Aug 24, 2017	Service	2,745	Perform Fuel Injection Pump	Customer complaint: 7/21/17 #7784 Customer states machine has fault codes on rear Engine. Cause of failure: Common rail fuel #2 valve solenoid current below Normal. code 1780-5 Resultant damage: Common rail fuel pump needs to be replaced Repair process comments: Remove fuel filter housing. remove brackets to Gain access to the fuel pump. roll engine and pin The pump. disconnect all fuel lines to pump. Remove pump. transfer fitting to new pump. INSTALL NEW PUMP ON THE ENGINE. RECONNECT ALL LINES. REINSTALL ALL BRACKETS. REINSTALL FUEL Filter housing. connect computer to machine and Flash rear engine and aftertreatment with most CURRENT FLASH FILES. START MACHINE AND TEST ALL Ok at this time. release machine to customer.
Aug 24, 2017	Service	2,745	Hydraulic Fan Motor	Customer complaint: 6/28/17 #7784 Replace brake accumulators Repair process comments: Charge new brake accumulators with 725 psi of Nitrogen. remove sheet metal on the machine. Remove guards on the accumulators. disconnect Lines from the accumulators. remove mounting and Remove accumulators. transfer fittings to new Accumulators. install new accumulators. connect Lines. top off hydraullic oil. start machine and And test pressures. the brake system now charges TO 2500 PSI CUTOUT AND CUTIN AND 2000 PSI. Release machine to customer Repair fan Repair fan
Aug 24, 2017	Service	2,745	Travel To/from Work Area	Customer complaint: 6/16/17 #7784 Travel to/from machine Repair process comments: Travel from hobbs nm on hwy 18 to hwy 176. travel On hwy 176 to big springs tx. travel on the same Route back to hobbs when complete. Customer complaint: 6/28/17 #7784 Travel to from machine Repair process comments: Travel from hobbs on hwy 18 to eunice. turn on hwy 176 and travel to big springs tx to machine Location. Travel on same route back to hobbs after the Repair. Customer complaint: 7/21/17 #7784 Travel to/from machine Repair process comments: TRAVEL FROM HOBBS ON HWY 18 TO EUNICE. TAKE HWY 176 through andrews tx to big springs tx to Machine location. follow same route on the return Trip to hobbs. Machine is located: big springs tx Machine is located: big springs tx

Aug 24, 2017	Service	2,745	Hydraulic Fan Motor	Customer complaint: 6/16/17 #7784 Ts hydraulic fan Repair process comments: Customer states machine overheating and fan making Noise. start machine and run machine. found the Noise coming from the fan motor when the pump Cyles. the noise is the spike in the pressure When the accumulator charge valve is moving. Connect gauges to both brake accumulators and Found zero charge of nitrogen. order two new Accumulators for machine. Machine has fault code for charge air cooler Outlet temp sensor. complete troubleshooting and Found bad sensor. order parts. T/s engine fan not working right T/s engine fan not working right
Aug 24, 2017	Service	2,745	Perform Fuel Injection Pump	Customer complaint: 7/21/17 #7784 Customer states machine has fault codes on rear Engine. Cause of failure: Common rail fuel #2 valve solenoid current below Normal. code 1780-5 Resultant damage: Common rail fuel pump needs to be replaced Repair process comments: Remove fuel filter housing. remove brackets to Gain access to the fuel pump. roll engine and pin The pump. disconnect all fuel lines to pump. Remove pump. transfer fitting to new pump. INSTALL NEW PUMP ON THE ENGINE. RECONNECT ALL LINES. REINSTALL ALL BRACKETS. REINSTALL FUEL Filter housing. connect computer to machine and Flash rear engine and aftertreatment with most CURRENT FLASH FILES. START MACHINE AND TEST ALL Ok at this time. release machine to customer.
Jul 12, 2017	Service	2,639	Engine	Repair process comments: Perform service letter ps45509
Jul 12, 2017	Service	2,639	Machine	Repair process comments: 7-10-17 8259 Removed hood shunt tank and other panels to acess Sensor removed old charge air sensor instaled new Sensor. 256-6453 instaled all panels and hood That were removed. plugged in cat et checked to See if code was active code was no longer active. Cleared all codes. performed a service regen. Tested machine everthing was ok at time of Repair. returned machine back to service.
Jul 12, 2017	Service	2,639	Engine	Customer complaint: LIGHTS FLASHING ON DASH Cause of failure: Shorted sensor Resultant damage: Ligts flashing on dash Repair process comments: 7-7-17 8259 3372- 3 engine charge air cooler #1 outlet Temperature sensor : voltage above normal. went Through trouble shooting found that the sensor Was faulty. looked up parts and order. Troubleshoot for now power Troubleshoot for now power
Jul 12, 2017	Service	2,639	Engine	Repair process comments: Perform service letter ps45509

Jul 12, 2017	Service	2,639	Engine	Customer complaint: LIGHTS FLASHING ON DASH Cause of failure: Shorted sensor Resultant damage: Ligts flashing on dash Repair process comments: 7-7-17 8259 3372- 3 engine charge air cooler #1 outlet Temperature sensor : voltage above normal. went Through trouble shooting found that the sensor Was faulty. looked up parts and order. Troubleshoot for now power Troubleshoot for now power
Jul 12, 2017	Service	2,639	Travel To/from Machine	Repair process comments: Hobbs to bigsprings tx Location to hobbs. REPAIR PROCESS COMMENTS: Ps45509 Ps45509
Jul 12, 2017	Service	2,639	Travel To/from Work Area	Repair process comments: Hobbs to bigsprings tx Location to hobbs. Repair process comments: 7-10-17 8259 Hobbs to big springs tx Location back to hobbs. Machine is located: big springs tx Machine is located: big springs tx
Jul 12, 2017	Service	2,639	Machine	Repair process comments: 7-10-17 8259 Removed hood shunt tank and other panels to acess Sensor removed old charge air sensor instaled new Sensor. 256-6453 instaled all panels and hood That were removed. plugged in cat et checked to See if code was active code was no longer active. Cleared all codes. performed a service regen. Tested machine everthing was ok at time of Repair. returned machine back to service.
Jun 20, 2017	Service	2,495	Cat Care Kit 250 Svc Hour Maint (pm1)	Sos report from oil lab Sos report from oil lab
Jun 12, 2017	Service	2,495	Machine	
Jun 12, 2017	Service	2,495	Add Parts 500 Svc Hour Maint (pm2)	

Jun 12, 2017	Service	2,495	Perform 500 Svc Hour Maint (pm2)	*notice* The following definition is a general statement And may not cover all the checks that pertain to The model you are working on. always follow Caterpillar operational maintenance manual for Specific instructions for the service you are Performingchange engine oil and filter -change hydraulic and transmission filters -obtain scheduled oil samples - the results of These will be sent to you upon completionclean air intake pre-cleaner bowl -lubricate all grease fittings -drain water separator -check coolant condition and add inhibitor if Necessary -check all fluid levels -clean engine crankcase breather replace secondary - clean/replace primary fuel filter and replace SECONDARY - perform visual operational inspection ************************************
Apr 20, 2017	Service	2,032	Inspect Machine	Perform incoming and outgoing inspection Perform incoming and outgoing inspection
Apr 20, 2017	Service	2,032	Rental Steam Clean After Service	
Apr 20, 2017	Service	2,032	Rental Steam Clean Machine	Customer complaint: 8286-3.17.17 Diff update. Repair process comments: Removed guards and fenders to send machine to wash Rack for contamination control cleaning before Diff up date is complete. Customer complaint: 8286- 3.20.17 Diff update. Repair process comments: Removed guards and fenders to send machine to wash Rack for contamination control cleaning before Diff up date is complete.

Apr	20.	2017	

2,032

Service

Perform Product Update On Differential Lock

Customer complaint: 8286 Perform diff lock update Cause of failure: Diff lock failure, speed sensor assembly failure Repair process comments: Completed pre trip inspection. completed paperwork Pulled machine into shop. took a product status Report. locked and tagged out machine. placed Chock blocks under tires. drained transmission, Hydraulic, differential, and final drives. took Oil samples of differential and finals. removed All lines to pull transmission and diff. removed All electrical connectors. removed mounting Bolts. removed transmission and differential from Machine. removed differential from transmission. Lifted machine using forklift. placed stands Under machine. drained left side brake. removed Final drive. removed hub. removed tire. removed Spindle. removed speed sensor assembly. built new Speed sensor assembly. cleaned mating surfaces. Cleaned sealing surfaces. cleaned spindle. Installed spindle. tightened mounting bolts to Spec of 384 52 lb ft. cleaned work area. loaded Tools. completed post trip inspection and Paperwork. \*\* 8286-3.28.17 Repair process comments: Removed diff lock from diff. dissassembled diff Lock. inpsected for failures. found diff lock Jaws were worn and damaged causing debri to cause Damage to diff lock piston and piston seal. took Pictures of failure. cleaned work area. gathered Assembly parts. assembly new diff lock following Caterpillar instruction. installed diff lock onto Diff. tightened mounting bolts to caterpillar Spec of 159+-30 foot pounds. removed fan, brake And diff lock valve from unit. cleaned sealing Surfaces of new valve. installed fittings and Sensors from removed valve. cleaned diff case for Hole to be drilled. drilled hole. cleaned work Area. loaded tools. completed paper work and Service report. \*\* 8286-3.30.17 Repair process comments: Performed pretrip inspection and paperwork. Cleaned sealing surface on diff. installed o-ring Seals.installed differential and transmission. Installed mounting bolts. tightened mounitng Bolts to cateprillar spec of 175 foot pounds. Connected all lines. connected electrical Connectors. installed left side fender support. CLEANED WHEEL AND BRAKE GROUP FOR WHEEL INSTALL. Cleaned final drive and ring gear for install. FOUND DUO CONE SEAL BROKEN. ORDERED NEW DUO CONE Seal. cleaned work area. loaded tools in truck. Completed paper work and service report. post Trip inspection. \*\* 8286 4.1.17 REPAIR PROCESS COMMENTS: Completed pre trip inspection. installed final Drive o-ring seal. installed final drive. TIGHTENED FINAL DRIVE BOLTS TO CATERPILLAR SPEC OF 347+-50 FOOT POUNDS OF TORQUE. INSTALLED AXLE Shaft and sun gear. cleaned final drive cover. Installed o-ring seal. installed final cover. Tightened mounting bolts to caterpillar spec of 74 foot pounds. used forklift to lift machine. Removed jack stands from machine. removed lock Out tag out from machine. filled machine with Oil. started machine. checked for leaks. no leaks Found. removed wheel chocks. turned machine fully To its left to removed right wheel for speed Sensor update. hocked wheels. used fork lift to Raise machine. placed jack stands under machine.

stands. removed final cover. Removed right side axle. removed final drive. Removed ring gear from wheel group. removed wheel From machine. removed spindle. removed speed SENSOR ASSEMBLY. DURING DISASSEMBLY FOUND RIGHT Side speed sensor was damaged due to wear on the Tone ring, housing, and hub assembly. assembled New speed sensor assembly. installed new speed SENSOR ASSEMBLY. CLEANED SPINDLE AND SEALING Surfaces. installed seal oring. installed Spindle. installed spindle mounting bolts. Tightened bolts to caterpillar spec of 384 52 Lb ft. cleaned wheel. installed wheel. installed Ring gear. set wheel bearing pre load following Caterpillar spec. tightened mounting bolts to Caterpillar spec of 177 30 lb ft. cleaned final Drive. installed seal o-ring. installed final Drive. installed final drive mounting bolts. Tightened bolts to caterpillar spec of 275 37 Lb ft. installed axle shaft and sun gear. cleaned Final drive cover. filled final drive oil and Product support program for reworking the Differential with oil. bled brake system. ran Machine in vard, checked for leaks and any issues WITH REPAIRS. NO LEAKS FOUND. CLEANED WORK AREA. Picked up tools and loaded truck. completed post Trip inspection and service report. \*\* 8286-3.29.17 Repair process comments: Filled out pretrip paper work. drilled hole in Diff case. cleaned diff case for Install.installed new updated diff lock lines. Removed old diff lock line. cleaned drive shaft COUPLER SEALING SURFACES.INSTALLED O-RING SEALS Onto drive shaft coupler. installed drive shaft Tube. tightened hose clamps to caterpillar spec. Installed updated valve block. connected all Electrical connectors. connected lines. cleaned Sealing surfaces on diff and transmission. Installed new oring seals onto diff and Transmission. installed diff onto transmission. Tightened mounting bolts to caterpillar spec. Cleaned work area and loaded truck. completed Postrip paper work and service reports. \*\* 8286 3.31.17 Repair process comments: Completed pre trip inspection, cleaned wheel Group. installed duo cone seal. during wheel Install found the first brake disc was out of Alignment. to realign brake disc. had to manually Disengage parking brake to release spring tension On brake friction disks. got proper tooling to Release parking brake, installed tooling, Released park brake. realigned brake discs. Splined wheel into brake. completely installed Wheel. installed ring gear for planetary gear Set. set and adjusted wheel bearing pre load to Spec. tightened mounting bolts to caterpillar Spec of 177+/- 30 foot pounds of torque. spun Wheel to double verify that the pre load was set Correctly. pre load was good. cleaned final drive For install. ordered install seals. cleaned work Area. cleaned tools and put away. completed Paperwork and service report. completed post trip Inspection. \*\* Product support program for reworking the Differential lock system ps45337 exp: 12/31/18 Group 1

Apr 20, 2017	Service	2,032	Supply Parts	Parts needed not called out on service letter. Parts needed
Αρι 20, 2017	Service	2,032		not called out on service letter.
Apr 20, 2017	Service	2,032	Troubleshoot Machine	Customer complaint: 8286-4.3.17 T/s rear engine code Cause of failure: 1-7 cylinder 1 injector not responding correctly. Repair process comments: Hooked laptop up to rear engine. ran cat et. Performed a cylinder cut out test. attached Results to this service report. ran a injector Solenoid test. injector 1 passed test. warmed Engine to operating temperature. performed a fuel System verification test. attached the results of This test to this service report. this test Failed injector one and following the t/s Procedure from caterpillar on this code stated That the faulty injector ordered. **
Apr 20, 2017	Service	2,032	Repair Engine	Customer complaint: 8286-4.3.17 Repair rear engine. Cause of failure: Injector 1 failed. Repair process comments: Locked and tagged out machine. parked truck by Machine to use crane. removed hood and grab Handles. disconnected all lines, and electrical Connectors to removed clean emissions module. Removed clean emissions module. cleaned work Area. loaded tools in truck. completed post trip Inspection and paperwork. ** 8286-4.4.17 Repair process comments: Completed pre trip inspection. removed remaining Clean emmissions module mounting plates. cleaned Any dirt around valve cover. removed valve cover Mounting bolts. removed valve cover. removed Compression brake mounting bolts. removed Compression brake electrical connector. removed Injection line. removed quill tube. removed CYLINDER 1 INJECTOR MOUNTING BOLT AND HOLD DOWN. Removed electrical connecor. removed cylinder 1 Injector. cleaned injector bore. removed all fuel And component cleaner from top of piston. Installed new injector into cylinder 1. tightened Injector mounting bolt to caterpillar spec of 21 2 lb ft. installed electrical connector. Installed quill tube.tightened quill tube lock NUT TO 52 2 LB FT. INSTALLED FUEL INJECTION Line. installed compression brake. tightened Mounting bolts to caterpillar spec of 41 7 lb Ft. ran the over head on the engine after Installing compression brake per caterpillar spec Of intake valve: 0.015 0.003 inch exhaust Valve: 0.025 0.003 inch. installed valve cover. Tightened valve cover mounting bolts to Caterpillar spec and in sequence of 250 62 lb In. installed clean emissions module mounting Plates. installed clean emissions module. Installed all connecting lines and tubes. Installed hood. installed all grab handles. Flashed new injector trim file. ran the fuel System verification test. attached copy of test Results to this service report. checked for code. No code. repairs complete.

Apr 20, 2017	Service	2,032	Rental Steam Clean Machine	Customer complaint: 8286-3.17.17 Diff update. Repair process comments: Removed guards and fenders to send machine to wash Rack for contamination control cleaning before Diff up date is complete. Customer complaint: 8286- 3.20.17 Diff update. Repair process comments: Removed guards and fenders to send machine to wash Rack for contamination control cleaning before Diff up date is complete.
Apr 20, 2017	Service	2,032	Repair Engine	Customer complaint: 8286-4.3.17 Repair rear engine. Cause of failure: Injector 1 failed. Repair process comments: Locked and tagged out machine. parked truck by Machine to use crane. removed hood and grab Handles. disconnected all lines, and electrical Connectors to removed clean emissions module. Removed clean emissions module. cleaned work Area. loaded tools in truck. completed post trip Inspection and paperwork. ** 8286-4.4.17 Repair process comments: Completed pre trip inspection. removed remaining Clean emmissions module mounting plates. cleaned Any dit around valve cover. removed valve cover Mounting bolts. removed valve cover. removed Compression brake mounting bolts. removed Compression brake electrical connector. removed Injection line. removed quill tube. removed CYLINDER 1 INJECTOR MOUNTING BOLT AND HOLD DOWN. Removed electrical connecor. removed cylinder 1 Injector. cleaned injector bore. removed all fuel And component cleaner from top of piston. Installed new injector into cylinder 1. tightened Injector mounting bolt to caterpillar spec of 21 2 lb ft. installed electrical connector. Installed quill tube.tightened quill tube lock NUT TO 52 2 LB FT. INSTALLED FUEL INJECTION Line. installed compression brake. tightened Mounting bolts to caterpillar spec of 41 7 lb Ft. ran the over head on the engine after Installing compression brake per caterpillar spec Of intake valve: 0.015 0.003 inch exhaust Valve: 0.025 0.003 inch. installed valve cover. Tightened valve cover mounting bolts to Caterpillar spec and in sequence of 250 62 lb In. installed clean emissions module mounting Plates. installed clean emissions module. Installed all connecting lines and tubes. Installed hood. installed all grab handles. Flashed new injector trim file. ran the fuel System verification test. attached copy of test Results to this service report. checked for code. No code. repairs complete.

Apr 20, 2017	Service	2,032	Repair Braking System	Customer complaint: 8286-4.3.17 Repair brake accumulators Cause of failure: Low psi and leak Repair process comments: Cleaned shrader valve. tightened shrader valve to Caterpillar spec. got nitrogen cylinder from Shop. loaded in truck. got tooling to charge Accumulators. installed tooling. charged Accumulators to spec of 711 psi at 50-60 degrees Fahrenheit. left accumulators sit with gauge Stil hooked up for 15 minutes each to ensure Charge was good and there was no leak. charge Held. removed tooling from accumulators. started Machine. ran and operated machine. checked brake System. brake system operated correctly with no Leaks.
Apr 20, 2017	Service	2,032	Inspect Machine	Perform incoming and outgoing inspection Perform incoming and outgoing inspection
Apr 20, 2017	Service	2,032	Troubleshoot Machine	Customer complaint: 8286-4.3.17 T/s low brake accumulator pressure. Cause of failure: Low accumulator pressure code. Repair process comments: Completed pre trip inspection and paper work. After competition of all repairs found that the Machine was logging a code for low brake Accumulator pressure and after checking the psr Found it had happened 255 times. removed engine Covers to gain access to brake accumulators. got Tooling. installed gauges to check accumulator Pressure. found that one accumulator had 0 psi of Nitrogen charge in accumulator and the shrader VALVE WAS LOOSE CAUSING ACCUMULATOR TO LEAK. THE Other brake accumulator was 350 psi low with Current outside temperature. had segment opened To repair accumulators.

Apr	20,	2017	

2,032

Service

Perform Product Update On Differential Lock Customer complaint: 8286 Perform diff lock update Cause of failure: Diff lock failure, speed sensor assembly failure Repair process comments: Completed pre trip inspection. completed paperwork Pulled machine into shop. took a product status Report. locked and tagged out machine. placed Chock blocks under tires. drained transmission, Hydraulic, differential, and final drives. took Oil samples of differential and finals. removed All lines to pull transmission and diff. removed All electrical connectors. removed mounting Bolts. removed transmission and differential from Machine. removed differential from transmission. Lifted machine using forklift. placed stands Under machine. drained left side brake. removed Final drive. removed hub. removed tire. removed Spindle. removed speed sensor assembly. built new Speed sensor assembly. cleaned mating surfaces. Cleaned sealing surfaces. cleaned spindle. Installed spindle. tightened mounting bolts to Spec of 384 52 lb ft. cleaned work area. loaded Tools. completed post trip inspection and Paperwork. \*\* 8286-3.28.17 Repair process comments: Removed diff lock from diff. dissassembled diff Lock. inpsected for failures. found diff lock Jaws were worn and damaged causing debri to cause Damage to diff lock piston and piston seal. took Pictures of failure. cleaned work area. gathered Assembly parts. assembly new diff lock following Caterpillar instruction. installed diff lock onto Diff. tightened mounting bolts to caterpillar Spec of 159+-30 foot pounds. removed fan, brake And diff lock valve from unit. cleaned sealing Surfaces of new valve. installed fittings and Sensors from removed valve. cleaned diff case for Hole to be drilled. drilled hole. cleaned work Area. loaded tools. completed paper work and Service report. \*\* 8286-3.30.17 Repair process comments: Performed pretrip inspection and paperwork. Cleaned sealing surface on diff. installed o-ring Seals.installed differential and transmission. Installed mounting bolts. tightened mounitng Bolts to cateprillar spec of 175 foot pounds. Connected all lines. connected electrical Connectors. installed left side fender support. CLEANED WHEEL AND BRAKE GROUP FOR WHEEL INSTALL. Cleaned final drive and ring gear for install. FOUND DUO CONE SEAL BROKEN. ORDERED NEW DUO CONE Seal. cleaned work area. loaded tools in truck. Completed paper work and service report. post Trip inspection. \*\* 8286 4.1.17 REPAIR PROCESS COMMENTS: Completed pre trip inspection. installed final Drive o-ring seal. installed final drive. TIGHTENED FINAL DRIVE BOLTS TO CATERPILLAR SPEC OF 347+-50 FOOT POUNDS OF TORQUE. INSTALLED AXLE Shaft and sun gear. cleaned final drive cover. Installed o-ring seal. installed final cover. Tightened mounting bolts to caterpillar spec of 74 foot pounds. used forklift to lift machine. Removed jack stands from machine. removed lock Out tag out from machine. filled machine with Oil. started machine. checked for leaks. no leaks Found. removed wheel chocks. turned machine fully To its left to removed right wheel for speed Sensor update. hocked wheels. used fork lift to Raise machine. placed jack stands under machine.

stands. removed final cover. Removed right side axle. removed final drive. Removed ring gear from wheel group. removed wheel From machine. removed spindle. removed speed SENSOR ASSEMBLY. DURING DISASSEMBLY FOUND RIGHT Side speed sensor was damaged due to wear on the Tone ring, housing, and hub assembly. assembled New speed sensor assembly. installed new speed SENSOR ASSEMBLY. CLEANED SPINDLE AND SEALING Surfaces. installed seal oring. installed Spindle. installed spindle mounting bolts. Tightened bolts to caterpillar spec of 384 52 Lb ft. cleaned wheel. installed wheel. installed Ring gear. set wheel bearing pre load following Caterpillar spec. tightened mounting bolts to Caterpillar spec of 177 30 lb ft. cleaned final Drive. installed seal o-ring. installed final Drive. installed final drive mounting bolts. Tightened bolts to caterpillar spec of 275 37 Lb ft. installed axle shaft and sun gear. cleaned Final drive cover. filled final drive oil and Product support program for reworking the Differential with oil. bled brake system. ran Machine in yard. checked for leaks and any issues WITH REPAIRS. NO LEAKS FOUND. CLEANED WORK AREA. Picked up tools and loaded truck. completed post Trip inspection and service report. \*\* 8286-3.29.17 Repair process comments: Filled out pretrip paper work. drilled hole in Diff case. cleaned diff case for Install.installed new updated diff lock lines. Removed old diff lock line. cleaned drive shaft COUPLER SEALING SURFACES.INSTALLED O-RING SEALS Onto drive shaft coupler. installed drive shaft Tube. tightened hose clamps to caterpillar spec. Installed updated valve block. connected all Electrical connectors. connected lines. cleaned Sealing surfaces on diff and transmission. Installed new oring seals onto diff and Transmission. installed diff onto transmission. Tightened mounting bolts to caterpillar spec. Cleaned work area and loaded truck. completed Postrip paper work and service reports. \*\* 8286 3.31.17 Repair process comments: Completed pre trip inspection. cleaned wheel Group. installed duo cone seal. during wheel Install found the first brake disc was out of Alignment. to realign brake disc. had to manually Disengage parking brake to release spring tension On brake friction disks. got proper tooling to Release parking brake. installed tooling. Released park brake. realigned brake discs. Splined wheel into brake. completely installed Wheel. installed ring gear for planetary gear Set. set and adjusted wheel bearing pre load to Spec. tightened mounting bolts to caterpillar Spec of 177+/- 30 foot pounds of torque. spun Wheel to double verify that the pre load was set Correctly. pre load was good. cleaned final drive For install. ordered install seals. cleaned work Area. cleaned tools and put away. completed Paperwork and service report. completed post trip Inspection. **\*\*** Product support program for reworking the Differential lock system ps45337 exp: 12/31/18 Group 1

Apr 20, 2017	Service	2,032	Troubleshoot Machine	Customer complaint: 8286-4.3.17 T/s rear engine code Cause of failure: 1-7 cylinder 1 injector not responding correctly. Repair process comments: Hooked laptop up to rear engine. ran cat et. Performed a cylinder cut out test. attached Results to this service report. ran a injector Solenoid test. injector 1 passed test. warmed Engine to operating temperature. performed a fuel System verification test. attached the results of This test to this service report. this test Failed injector one and following the t/s Procedure from caterpillar on this code stated That the faulty injector needs replaced due to Wear. made parts lists. had injector ordered. **
Apr 20, 2017	Service	2,032	Rental Steam Clean After Service	
Apr 20, 2017	Service	2,032	Perform Indicated Maintenance	
Apr 20, 2017	Service	2,032	Supply Parts	Parts needed not called out on service letter. Parts needed not called out on service letter.
Feb 24, 2017	Service			T/s traction control n/w on machine
Feb 24, 2017	Service			T/s traction control n/w on machine
Feb 10, 2017	Service			
Dec 19, 2016	Service			
Dec 19, 2016	Service			
Dec 19, 2016	Service			
Dec 19, 2016	Service			
Dec 19, 2016	Service			
Dec 19, 2016	Service			
Dec 19, 2016	Service			
Dec 19, 2016	Service			
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Dec 19, 2016	Service			
Dec 19, 2016	Service			
Dec 19, 2016	Service			
Dec 19, 2016	Service			
Dec 19, 2016	Service			
Dec 19, 2016	Service			
Dec 14, 2016	Service			
Nov 14, 2016	Service	1,790	Repair Braking System	Customer complaint: Bad oil sample Repair process comments: Traveled to location and located machine. loto Machine and drained brake cooling oil. filled WITH NEW OIL AND RAN UNIT. RECHECKED LEVEL AND All seems ok at this time. T/s for bad sample and change out brake cooling Oil advise
Nov 14, 2016	Service	1,790	Travel To/from Work Area	
Nov 14, 2016	Service	1,790	Travel To/from Work Area	
Nov 14, 2016	Service	1,790	Repair Braking System	Customer complaint: Bad oil sample Repair process comments: Traveled to location and located machine. loto Machine and drained brake cooling oil. filled WITH NEW OIL AND RAN UNIT. RECHECKED LEVEL AND All seems ok at this time. T/s for bad sample and change out brake cooling Oil advise

Oct 24, 2016	Service	1,600	Perform 500 Svc Hour Maint (pm2)	*notice* The following definition is a general statement And may not cover all the checks that pertain to The model you are working on. always follow Caterpillar operational maintenance manual for Specific instructions for the service you are Performingchange engine oil and filter -change hydraulic and transmission filters -obtain scheduled oil samples - the results of These will be sent to you upon completionCLEAN AIR INTAKE PRE-CLEANER BOWL - lubricate all grease fittings -drain water separator -CHECK COOLANT CONDITION AND ADD INHIBITOR IF Necessary - check all fluid levels -clean engine crankcase breather replace secondary -perform visual operational inspection ************************************
Oct 24, 2016	Service	1,600	Add Parts 500 Svc Hour Maint (pm2)	
Oct 24, 2016	Service	1,615	Travel To/from Work Area	
Oct 24, 2016	Service	1,615	Repair Brake Accumulator	Customer complaint: Error code for low brake accumulator pressure. Repair process comments: The operator could hit the brakes once and the Light would come on with the alarm as well as a CODE. I FOUND THE BRAKE ACCUMULATORS AND TESTED THE CHARGE. THEY WERE BOTH FLAT. I CHARGED THEM And we tested the brakes again. this time they Were good. i erased all the error codes and Returned machine to service.
Oct 24, 2016	Service	1,600	Add Parts 500 Svc Hour Maint (pm2)	

Oct 24, 2016	Service	1,600	Perform 500 Svc Hour Maint (pm2)	*notice* The following definition is a general statement And may not cover all the checks that pertain to The model you are working on. always follow Caterpillar operational maintenance manual for Specific instructions for the service you are Performingchange engine oil and filter -change hydraulic and transmission filters -obtain scheduled oil samples - the results of These will be sent to you upon completionCLEAN AIR INTAKE PRE-CLEANER BOWL - lubricate all grease fittings -drain water separator -CHECK COOLANT CONDITION AND ADD INHIBITOR IF Necessary - check all fluid levels -clean engine crankcase breather replace secondary -clean/replace primary fuel filter and replace Secondary -perform visual operational inspection ************************************
Oct 24, 2016	Service	1,615	Travel To/from Work Area	
Oct 24, 2016	Service	1,615	Repair Brake Accumulator	Customer complaint: Error code for low brake accumulator pressure. Repair process comments: The operator could hit the brakes once and the Light would come on with the alarm as well as a CODE. I FOUND THE BRAKE ACCUMULATORS AND TESTED THE CHARGE. THEY WERE BOTH FLAT. I CHARGED THEM And we tested the brakes again. this time they Were good. i erased all the error codes and Returned machine to service.
Sep 22, 2016	Service	1,615	Travel To/from Work Area	
Sep 22, 2016	Service	1,615	Repair Brake Accumulator	Customer complaint: Error code for low brake accumulator pressure. Repair process comments: The operator could hit the brakes once and the Light would come on with the alarm as well as a CODE. I FOUND THE BRAKE ACCUMULATORS AND TESTED THE CHARGE. THEY WERE BOTH FLAT. I CHARGED THEM And we tested the brakes again. this time they Were good. i erased all the error codes and Returned machine to service.

Sep 20, 2016	Service	1,600	Perform 500 Svc Hour Maint (pm2)	*notice* The following definition is a general statement And may not cover all the checks that pertain to The model you are working on. always follow Caterpillar operational maintenance manual for Specific instructions for the service you are Performingchange engine oil and filter -change hydraulic and transmission filters -obtain scheduled oil samples - the results of These will be sent to you upon completionCLEAN AIR INTAKE PRE-CLEANER BOWL - lubricate all grease fittings -drain water separator -CHECK COOLANT CONDITION AND ADD INHIBITOR IF Necessary - check all fluid levels -clean engine crankcase breather replace secondary -clean/replace primary fuel filter and replace Secondary -perform visual operational inspection ************************************
Sep 20, 2016	Service	1,600	Add Parts 500 Svc Hour Maint (pm2)	Perform 500 hour service as outlined in sis.
Sep 12, 2016	Parts			
Aug 04, 2016	Service	1,324	Repair Engine	Repair process comments: Traveled to location and located machine. visually Checked unit over for possible signs of problems. Removed hood and found the fan belt missing. Crawled down and checked all idlers and pulleys. All seem ok. installed belt. tried to start and Batteries are dead. removed front cover and jump STARTED OFF ANOTHER MACHINE. RAN UNIT. PERFORMED Download and check foe current codes. all seems OK AT THIS TIME. Broken belt
Aug 04, 2016	Service	1,324	Travel To/from Work Area	
Jul 06, 2016	Service	998	Load/unload Machine	
Jul 06, 2016	Service	998	Inspect Machine	COMPLETE INSPECTION AND PICTURES IF NECESSARY
Jul 06, 2016	Service	998	Rental Steam Clean Machine	

Jul 06, 2016	Service	998	Repair For Warranty Product Support Pgm (psp)	Customer complaint: Perform service letter ps45031 dated 3/28/2016 Repair process comments: Performed service letter ps45031 dated 3/28/2016 Customer complaint: Perform service letter ps45031 dated 3/28/2016 Repair process comments: Performed service letter ps45031 dated 3/28/2016 Customer complaint: Perform service letter ps45031 dated 3/28/2016 Repair process comments: Performed service letter ps45031 dated 3/28/2016 Customer complaint: Perform service letter ps45031 dated 3/28/2016 Repair process comments: Performed service letter ps45031 dated 3/28/2016 Perform sl ps45031 dated 03/28/2016
Jul 06, 2016	Service	998	Repair For Warranty Engine Software	Customer complaint: Perform service letter ps45056 dated April/29/2016 Repair process comments: Performed service letter ps45056 dated April/29/2016 Customer complaint: Perform service letter ps45056 dated April/29/2016 Repair process comments: Performed service letter ps45056 dated April/29/2016 Customer complaint: Perform service letter ps45056 dated April/29/2016 Repair process comments: Performed service letter ps45056 dated April/29/2016 Customer complaint: Perform service letter ps45056 dated April/29/2016 Repair process comments: Performed service letter ps45056 dated April/29/2016 Customer complaint: Perform service letter ps45056 dated April/29/2016 Repair process comments: Performed service letter ps45056 dated April/29/2016 Perform sl ps45056 dated april/29/2016
Jul 06, 2016	Service	998	Repair For Warranty Machine	Multiple codes. data link fault. front and rear Engine control modules say c9. Repair process comments: Connect with et. front engine shows c9 instead of C13. front aftertreatment ecm and front engine Ecm show application missmatch due to both front And rear engines showing c9 engine. try to Reflash front ecm with correct file. front ecm Is still a c9. connect to front engine ecm with Bypass harness. still says its a c9. install Reman ecm in test mode. front engine is now a C13. codes are gone. after treatment ecm is now Showing front #1 after treatment ecm. re Assemble cab and install engine side access Covers. REPAIR ELECT.
Jul 06, 2016	Service	998	Repair For Warranty Product Support Pgm (psp)	Customer complaint: Perform service letter ps45031 dated 3/28/2016 Repair process comments: Performed service letter ps45031 dated 3/28/2016 Customer complaint: Perform service letter ps45031 dated 3/28/2016 Repair process comments: Performed service letter ps45031 dated 3/28/2016 Customer complaint: Perform service letter ps45031 dated 3/28/2016 Repair process comments: Performed service letter ps45031 dated 3/28/2016 Customer complaint: Perform service letter ps45031 dated 3/28/2016 Repair process comments: Performed service letter ps45031 dated 3/28/2016 Perform sl ps45031 dated 03/28/2016

Jul 06, 2016	Service	998	Perform 1000 Svc Hour Maint (pm3)	<pre>*notice* The following definition is a general statement And may not cover all the checks that pertain to The model you are working on. always follow Caterpillar operational maintenance manual for Specific instructions for the service you are Performingchange engine oil and filter -change transmission oil and filter -clean and inspect magnetic screen -change hydraulic filters -obtain scheduled oil samples - the results of These will be sent to you upon completion -clean air intake pre-cleaner bowl -lubricate all grease fittings -drain water separator -check coolant condition and add inhibitor if Necessary -CHECK ALL FLUID LEVELS -clean engine crankcase breather -clean primary fuel filter and replace secondary - perform visual operational inspection -change swing drive oil (when applicable) ************************************</pre>
Jul 06, 2016	Service	998	Load/unload Machine	
Jul 06, 2016	Service	998	Perform Indicated Maintenance	Customer complaint: Perform indicated maintenance Repair process comments: Greased machine, inspected for damage, checked all Fluid levels; all functions of machine work Correctly. TROUBLESHOOT 17 ACTIVE CODES, USED TROUBLESHOOTING Steps and found engine #1 ecm was bad. Customer complaint: Perform indicated maintenance Repair process comments: Greased machine, inspected for damage, checked all Fluid levels. all functions of machine work Correctly. Troubleshot 17 active codes, used troubleshooting Steps and found engine #1 ecm was bad. Customer complaint: Perform indicated maintenance Repair process comments: Greased machine, inspected for damage, checked all Fluid levels. all functions of machine work CORRECTLY. Troubleshoot 17 active codes, used troubleshooting Steps and found engine #1 ecm was bad. CUSTOMER COMPLAINT: Perform indicated maintenance Repair process comments: Greased machine, inspected for damage, checked all Fluid levels. all functions of machine work CORRECTLY. Troubleshoot 17 active codes, used troubleshooting Steps and found engine #1 ecm was bad. CUSTOMER COMPLAINT: Perform indicated maintenance Repair process comments: Greased machine, inspected for damage, checked all Fluid levels. all functions of machine work Correctly. Troubleshoot 17 active codes, used troubleshooting Steps and found engine #1 ecm was bad. Daily maintenance items See w/o notes for details !

Jul 06, 2016	Service	998	Replace Ground Engaging Tl (get)	Customer complaint: Replace cutting edges REPAIR PROCESS COMMENTS: REPLACED CUTTING EDGES AND INSTALLED WITH NEW Hardware. Customer complaint: Replace cutting edges Repair process comments: Replaced cutting edges and installed with new HARDWARE. Customer complaint: Replace cutting edges Repair process comments: Replaced cutting edges and installed with new Hardware. Customer complaint: Replace cutting edges Repair process comments: Replaced cutting edges and installed with new Hardware. Replaced cutting edges and installed with new Hardware. Replace bucket teeth / edges if needed
Jul 06, 2016	Service	998	Repair For Warranty Machine	Multiple codes. data link fault. front and rear Engine control modules say c9. Repair process comments: Connect with et. front engine shows c9 instead of C13. front aftertreatment ecm and front engine Ecm show application missmatch due to both front And rear engines showing c9 engine. try to Reflash front ecm with correct file. front ecm Is still a c9. connect to front engine ecm with Bypass harness. still says its a c9. install Reman ecm in test mode. front engine is now a C13. codes are gone. after treatment ecm is now Showing front #1 after treatment ecm. re Assemble cab and install engine side access Covers. REPAIR ELECT.
Jul 06, 2016	Service	998	Replace Decals	CUSTOMER COMPLAINT: REPLACE WORN DECAL AND REMOVE CUSTOMER NUMBERS Repair process comments: Replaced decal and removed customer numbers on Machine. Customer complaint: Replace worn decal and remove customer numbers Repair process comments: Replaced decal and removed customer numbers on MACHINE. Customer complaint: Replace worn decal and remove customer numbers Repair process comments: Replaced decal and removed customer numbers on Machine. Customer complaint: Replace worn decal and remove customer numbers Repair process comments: Replaced decal and removed customer numbers on Machine. Customer numbers Repair process comments: Replaced decal and removed customer numbers on Machine. Replace worn decal and removed customer numbers on Machine. Replace worn decal and remove cust. numbers
Jul 06, 2016	Service	998	Repair For Warranty Engine Software	Customer complaint: Perform service letter ps45056 dated April/29/2016 Repair process comments: Performed service letter ps45056 dated April/29/2016 Customer complaint: Perform service letter ps45056 dated April/29/2016 Repair process comments: Performed service letter ps45056 dated April/29/2016 Customer complaint: Perform service letter ps45056 dated April/29/2016 Repair process comments: Performed service letter ps45056 dated April/29/2016 Customer complaint: Perform service letter ps45056 dated April/29/2016 Repair process comments: Performed service letter ps45056 dated April/29/2016 Customer complaint: Perform service letter ps45056 dated April/29/2016 Repair process comments: Performed service letter ps45056 dated April/29/2016 Perform sl ps45056 dated april/29/2016
Jul 06, 2016	Service	998	Rental Steam Clean Machine	

Jul 06, 2016	Service	998	Inspect Machine	COMPLETE INSPECTION AND PICTURES IF NECESSARY
Jul 06, 2016	Service	998	Straighten Ejector	Customer complaint: Straighten ejector door corners Repair process comments: Straightened corners of ejectors and painted Customer complaint: Straighten ejector door corners Repair process comments: Straightened corners of ejectors and painted when Done Customer complaint: Straighten ejector door corners Repair process comments: Straightened corners of ejectors and painted when Done Customer complaint: Straighten ejector door corners Repair process comments: Straightened corners of ejectors and painted when Done Straighten ejector door corners
Jul 06, 2016	Service	998	Check Electronic Mon Sys/panel	Check and clear codes
Jun 29, 2016	Service	944	Repair Engine	Parts replaced not covered by warranty
Jun 29, 2016	Service	944	Troubleshoot Engine	Customer complaint: Active code Cause of failure: Poor def injector spray pattern Resultant damage: Active code and derate Repair process comments: I received a pass off from another mechanic Drove to machine and removed all necessary body Work to gain access to the def injector Removed the old injector and installed the new One Ran a def system verification test and a manual Dpf regeneration TURNED MACHINE OVER TO CUSTOMER AND RETURNED TO THE SHOP WHERE I TURNED PARTS IN FOR WARRANTY AND Completed paperwork Customer complaint: Operator inducement, shut down Cause of failure: Failed def injector, front engine Resultant damage: Unknown REPAIR PROCESS COMMENTS: Connected et, performed troubleshooting steps in Uenr0978-24. During testing, rear after treatment functionality Test passed, front did not. active e2202 Diagnostic. Followed t/s steps in uenr 0978-24, which lead to "replace def injector" due to poor spray Pattern. Replaced injector, front after treatment Functionality good. Codes 1370 & 1389
Jun 29, 2016	Service	944	Travel To/from Work Area	

Jun 28, 2016	Service	944	Troubleshoot Engine	Customer complaint: Active code Cause of failure: Poor def injector spray pattern Resultant damage: Active code and derate Repair process comments: I received a pass off from another mechanic Drove to machine and removed all necessary body Work to gain access to the def injector Removed the old injector and installed the new One Ran a def system verification test and a manual Dpf regeneration TURNED MACHINE OVER TO CUSTOMER AND RETURNED TO THE SHOP WHERE I TURNED PARTS IN FOR WARRANTY AND Completed paperwork Customer complaint: Operator inducement, shut down Cause of failure: Failed def injector, front engine Resultant damage: Unknown REPAIR PROCESS COMMENTS: Connected et, performed troubleshooting steps in Uenr0978-24. During testing, rear after treatment functionality Test passed, front did not. active e2202 Diagnostic. Followed t/s steps in uenr 0978-24, which lead to "replace def injector" due to poor spray Pattern. Replaced injector, front after treatment Functionality good. Codes 1370 & 1389
Jun 28, 2016	Service	944	Troubleshoot Engine	Customer complaint: Active code Cause of failure: Poor def injector spray pattern Resultant damage: Active code and derate Repair process comments: I received a pass off from another mechanic Drove to machine and removed all necessary body Work to gain access to the def injector Removed the old injector and installed the new One Ran a def system verification test and a manual Dpf regeneration TURNED MACHINE OVER TO CUSTOMER AND RETURNED TO THE SHOP WHERE I TURNED PARTS IN FOR WARRANTY AND Completed paperwork Customer complaint: Operator inducement, shut down Cause of failure: Failed def injector, front engine Resultant damage: Unknown REPAIR PROCESS COMMENTS: Connected et, performed troubleshooting steps in Uenr0978-24. During testing, rear after treatment functionality Test passed, front did not. active e2202 Diagnostic. Followed t/s steps in uenr 0978-24, which lead to "replace def injector" due to poor spray Pattern. Replaced injector, front after treatment Functionality good. Codes 1370 & 1389
Jun 28, 2016	Service	944	Travel To/from Work Area	
Jun 28, 2016	Service	944	Repair Engine	Parts replaced not covered by warranty

Jun 13, 2016	Service	1,030	Troubleshoot Engine	Customer complaint: Rear engine has e1370 def loss of prime and E1389-1 and -2 operator inducement. Cause of failure: Def pump wont build pressure. Repair process comments: Connect with et to check codes. found active E1370 and e1389. def level is showing 1/2. fill Def tank and gauge goes to full. perform def System verification test. pump pressure never Moved from .8 psi. check filters. filters not Plugged. replace def pump unit. perform def System verification test. test passed. def pump Builds 130 psi. start engine. operator Inducement codes are in active. clear codes and Return to service. Nozzle dozing code & code 1389
			Travel To/from Work	
Jun 13, 2016	Service	1,030	Area	
May 01, 2016	Service	944	Troubleshoot Engine	Customer complaint: Active code Cause of failure: Poor def injector spray pattern Resultant damage: Active code and derate Repair process comments: I received a pass off from another mechanic Drove to machine and removed all necessary body Work to gain access to the def injector Removed the old injector and installed the new One Ran a def system verification test and a manual Dpf regeneration TURNED MACHINE OVER TO CUSTOMER AND RETURNED TO THE SHOP WHERE I TURNED PARTS IN FOR WARRANTY AND Completed paperwork Customer complaint: Operator inducement, shut down Cause of failure: Failed def injector, front engine Resultant damage: Unknown REPAIR PROCESS COMMENTS: Connected et, performed troubleshooting steps in Uenr0978-24. During testing, rear after treatment functionality Test passed, front did not. active e2202 Diagnostic. Followed t/s steps in uenr 0978-24, which lead to "replace def injector" due to poor spray Pattern. Replaced injector, front after treatment Functionality good. Codes 1370 & 1389
May 01, 2016	Service	944	Repair Engine	Parts replaced not covered by warranty

May 01, 2016	Service	944	Troubleshoot Engine	Customer complaint: Active code Cause of failure: Poor def injector spray pattern Resultant damage: Active code and derate Repair process comments: I received a pass off from another mechanic Drove to machine and removed all necessary body Work to gain access to the def injector Removed the old injector and installed the new One Ran a def system verification test and a manual Dpf regeneration TURNED MACHINE OVER TO CUSTOMER AND RETURNED TO THE SHOP WHERE I TURNED PARTS IN FOR WARRANTY AND Completed paperwork Customer complaint: Operator inducement, shut down Cause of failure: Failed def injector, front engine Resultant damage: Unknown REPAIR PROCESS COMMENTS: Connected et, performed troubleshooting steps in Uenr0978-24. During testing, rear after treatment functionality Test passed, front did not. active e2202 Diagnostic. Followed t/s steps in uenr 0978-24, which lead to "replace def injector" due to poor spray Pattern. Replaced injector, front after treatment Functionality good. Codes 1370 & 1389
May 01, 2016	Service	944	Travel To/from Work Area	
Apr 28, 2016	Service	804	Troubleshoot Torque Converter	Customer complaint: Rear transmission was getting hot Cause of failure: Grass, trash in the radiator RESULTANT DAMAGE: None Repair process comments: Trouble shoot rear engine to see why it was Overheating. i found grass matting the radiator Over and not letting air trough. blew out Radiator and had the customer run the machine (ok). Rear torque convertor high oil temp code:155
Apr 28, 2016	Service	804	Travel To/from Work Area	
Mar 21, 2016	Service	750	Load/unload Machine	
Mar 21, 2016	Service	750	Inspect Machine	COMPLETE INSPECTION - PICTURES AS NECESSARY
Mar 21, 2016	Service	750	Inspect After Service	

Mar 21, 2016	Service	750	Repair For Warranty Wiring Harness	REPAIR PROCESS COMMENTS: Code for rod end pressure sensor above normal. FOUND THAT CODE ONLY BECAME ACTIVE AT THE TOP OF The cushion hitch stroke. found sensor. performed Duty cycle tests, hertz tests, voltage tests. Found no issues. retested all tests at the top of Cushion hitch stroke. still found nothing Abnormal. replaced sensor. code still active. Replaced tyco connector to sensor. still no CHANGE. RAN JUMPER WIRE BETWEEN POWER AND GROUND. Expected results occurred. ran jumper between Signal and ground. expected results occurred. ran Jumper between power and signal. expected results Occurred. ohmed out wires from sensor to first Connector. all wires tested good. bypassed wires From sensor to first connector. code remained Unchanged. ohmed out wires from first connector To second connector. wires passed ohm test. Bypassed wire from first connector to second CONNECTOR. CODE REMAINED UNCHANGED. BYPASSED Wires from sensor to 70 pin connector. first one Wire at a time then with all three wires at the Same time. code remained unchanged. bypassed Wires from 70 pin connector to cab. code was no Longer active. found t.i.b. for wiring harness at Cushion hitch. t.i.b media number:tibu8027. fund That i had bypassed 2 harnesses from 70 pin to Cab. removed bypass from cab. removed rear belly Pan . found junction between 2 harnesses. used as A BYPASS POINT. BYPASSED AT JUNCTION. CODE Remained logged. ordered new harness and Installed onto machine. installed some new Grommets and bolts. added new guard over new Harness. T/s repair rod end pressure sensor above normal.
Mar 21, 2016	Service	750	Remove & Install/replace Air Filter Element	Repair process comments: Rear air cleaner and hood were damaged during Shipping. removed old pre cleaner and brackets. Removed rear hood and sent to paint shop. Reinstalled hood upon return from paint shop. Installed new pre cleaner and brackets. Air cleaner at rear of machine damaged during Transport by weco. r&i hood to have cracks Repaired. ***** PO# 301896 ****

Mar 21, 2016	Service	750	Repair For Warranty Wiring Harness	REPAIR PROCESS COMMENTS: Code for rod end pressure sensor above normal. FOUND THAT CODE ONLY BECAME ACTIVE AT THE TOP OF The cushion hitch stroke. found sensor. performed Duty cycle tests, hertz tests, voltage tests. Found no issues. retested all tests at the top of Cushion hitch stroke. still found nothing Abnormal. replaced sensor. code still active. Replaced tyco connector to sensor. still no CHANGE. RAN JUMPER WIRE BETWEEN POWER AND GROUND. Expected results occurred. ran jumper between Signal and ground. expected results occurred. ran Jumper between power and signal. expected results Occurred. ohmed out wires from sensor to first Connector. all wires tested good. bypassed wires From sensor to first connector. code remained Unchanged. ohmed out wires from first connector To second connector. wires passed ohm test. Bypassed wire from first connector to second CONNECTOR. CODE REMAINED UNCHANGED. BYPASSED Wires from sensor to 70 pin connector. first one Wire at a time then with all three wires at the Same time. code remained unchanged. bypassed Wires from 70 pin connector to cab. code was no Longer active. found t.i.b. for wiring harness at Cushion hitch. t.i.b media number:tibu8027. fund That i had bypassed 2 harnesses from 70 pin to Cab. removed bypass from cab. removed rear belly Pan . found junction between 2 harnesses. used as A BYPASS POINT. BYPASSED AT JUNCTION. CODE Remained logged. ordered new harness and Installed onto machine. installed some new Grommets and bolts. added new guard over new Harness. T/s repair rod end pressure sensor above normal.
Mar 21, 2016	Service	750	Check Electronic Mon Sys/panel	Repair process comments: LOTS OF CODES. MOST ONLY HAPPENED ONE TIME. THOSE Codes i cleared then tested to see if they RESURFACE. I TROUBLESHOT 2 CODES. FIRST CODE WAS Rod end pressure sensor above normal. used Different segment to troubleshoot. other code was Cushion hitch pressure sensor failed. started to Troubleshoot then added segment for Troubleshooting. codes attached below. Check and clear codes
Mar 21, 2016	Service	750	Inspect Machine	COMPLETE INSPECTION - PICTURES AS NECESSARY
Mar 21, 2016	Service	750	Tighten Fasteners, Conn & Hardwr	Repair process comments: Trans shifter missing screw. replaced screw. Trans shifter handle loose

Mar 21, 2016	Service	750	Perform 250 Svc Hour Maint (pm1)	*notice* The following definition is a general statement And may not cover all the checks that pertain to THE MODEL YOU ARE WORKING ON. ALWAYS FOLLOW Caterpillar operational maintenance manual for Specific instructions for the service you are PerformingCHANGE ENGINE OIL AND FILTER - obtain scheduled oil samples - the results of THESE WILL BE SENT TO YOU UPON COMPLETION -clean air intake pre- cleaner -lubricate all grease fittings -DRAIN WATER SEPARATOR -check coolant condition and add inhibitor if Necessary -CHECK ALL FLUID LEVELS -perform visual operational inspection -adjust oscillating hitch (when applicable) -check track adjustment (when applicable) ************************************
Mar 21, 2016	Service	750	Inspect After Service	
Mar 21, 2016	Service	750	Troubleshoot Cushion Hitch Load Cyl	Repair process comments: Cushion hitch position sensor had code of failure. Troubleshot code. checked duty cycle, checked Volts, checked hertz, ran cushion hitch up and Down. checked sensor against other machine. found T.I.B. ON SENSOR. MEDIA NUMBER: TIBU7796. CHECKED For ring fallen as described on t.i.b. ring was Secured in place. T/s cushon hitch postion sensor.
Mar 21, 2016	Service	750	Add Parts 250 Svc Hour Maint (pm1)	Add parts for service
Mar 21, 2016	Service	750	Perform Indicated Maintenance	Perform only the following items that are needed. These are target hours only. Service air filters (cab & engine) 0.5 hours Grease machine 1.0 hours Check fluid levels 0.5 hours Adjust tire pressure 0.5 hours ADJUST TRACKS 0.5 HOURS Check wear analysis 0.5 hours Repair process comments: Checked fluids, greased machine, found machine, Cleaned stall. wrote service report. Daily maintenance items. See w/o notes for details.
Mar 21, 2016	Service	750	Replace Ground Engaging Tl (get)	Repair process comments: Flipped edges. originally flipped router bits, Then changed per roy w. Flip router bit and edges

Mar 21, 2016	Service	750	Remove & Install/replace Air Filter Element	Repair process comments: Rear air cleaner and hood were damaged during Shipping. removed old pre cleaner and brackets. Removed rear hood and sent to paint shop. Reinstalled hood upon return from paint shop. Installed new pre cleaner and brackets. Air cleaner at rear of machine damaged during Transport by weco. r&i hood to have cracks Repaired. ***** PO# 301896 ****
Mar 21, 2016	Service	750	Tighten Coolant Hose/lines	Repair process comments: Loose hose clamps on front engine coolant. Tightened clamps Tighten loose coolant hose clamps- leaking
Mar 21, 2016	Service	750	Inspect Attachments	Verify stock number of attachments
Mar 21, 2016	Service	750	Remove & Install/replace Radio	Repair process comments: Radio knob broken off. installed new radio and Tightened bracket. Radio knob broke off. radio loose in mount
Mar 21, 2016	Service	750	Rental Steam Clean Machine	
Mar 21, 2016	Service	750	Load/unload Machine	
Mar 10, 2016	Service	0	Load/unload Machine	
Feb 17, 2016	Service	561	Load/unload Machine	
Feb 17, 2016	Service	561	Inspect After Service	
Feb 17, 2016	Service	561	Inspect Machine	Complete inspection - pictures as necessary
Feb 17, 2016	Service	561	Rental Steam Clean Machine	
Feb 17, 2016	Service	561	Update Fender	Repair process comments: Removed installed both side fenders. installed Updated shields.nate lentz agreed to support Parts only through goodwill. Perform sepd1952 to update the inner fenders. Nate lentz of cat consented to pay for parts if Wagner provides the labor.

Feb 17, 2016	Service	561	Repair For Warranty Electronic Mon Sys/panel	REPAIR PROCESS COMMENTS: Troubleshot active code3496-3 for ejector cylinder Rod pressure sensor -voltage above normal. Removed guards off hydraulic control valve by Draft arm. checked sensors. apron cylinder PRESSURE SENSOR WAS BROKEN THERE WAS NO CODE FOR Apron. replaced apron cylinder pressure sensor. SWAPPED SENSORS SEE IF CODE GOES WAY. CODE STAYS Active. removed panel behind seat to get ecm. run Jumper wire on signal wire. code not active when Run jumper wire. checked harness from ecm to Ejector sensor. checked continuity sensor Circuit. there was open on harness on signal wire T899-pu. checked continuity each harness found Open on hitch harness. replaced hitch harness. Repair for active codes e441, 3496-3
Feb 17, 2016	Service	561	Remove Miscellaneous	Repair process comments: Removed duct tape off rear radiator. Remove screen taped to rear eng radiator guard
Feb 17, 2016	Service	561	Clean Radiator	Repair process comments: Cleaned rear engine radiator core. Clean out plugged rear radiator.
Feb 17, 2016	Service	561	Check Electronic Mon Sys/panel	Repair process comments: Checked cleared codes. Check and clear codes
Feb 17, 2016	Service	561	Replace Stoplight/taillight	Repair process comments: Replaced missing hardware on left stop light. Replace missing hardware at left rear tail light Mount.
Feb 17, 2016	Service	561	Update Fender	Repair process comments: Removed installed both side fenders. installed Updated shields.nate lentz agreed to support Parts only through goodwill. Perform sepd1952 to update the inner fenders. Nate lentz of cat consented to pay for parts if Wagner provides the labor.
Feb 17, 2016	Service	561	Load/unload Machine	
Feb 17, 2016	Service	561	Add Parts 500 Svc Hour Maint (pm2)	Add parts for service
Feb 17, 2016	Service	561	Straighten Bottom Guard	Repair process comments: Removed installed bottom guards. straightened Bottom guards. Bottom engine guard bent- straighten
Feb 17, 2016	Service	561	Install Hydraulic Tank	Repair process comments: Replaced missing hydraulic tank cap. Hyd tank cap missing install new cap assem.

Feb 17, 2016	Service	561	Perform 500 Svc Hour Maint (pm2)	*notice* The following definition is a general statement And may not cover all the checks that pertain to The model you are working on. always follow CATERPILLAR OPERATIONAL MAINTENANCE MANUAL FOR Specific instructions for the service you are Performingchange engine oil and filter - change hydraulic and transmission filters -obtain scheduled oil samples - the results of These will be sent to you upon completionclean air intake pre-cleaner bowl -LUBRICATE ALL GREASE FITTINGS -drain water separator -check coolant condition and add inhibitor if Necessary -check all fluid levels -clean engine crankcase breather replace secondary - clean/replace primary fuel filter and replace Secondary - perform visual operational inspection ************************************
Feb 17, 2016	Service	561	Repair For Warranty Electronic Mon Sys/panel	REPAIR PROCESS COMMENTS: Troubleshot active code3496-3 for ejector cylinder Rod pressure sensor -voltage above normal. Removed guards off hydraulic control valve by Draft arm. checked sensors. apron cylinder PRESSURE SENSOR WAS BROKEN THERE WAS NO CODE FOR Apron. replaced apron cylinder pressure sensor. SWAPPED SENSORS SEE IF CODE GOES WAY. CODE STAYS Active. removed panel behind seat to get ecm. run Jumper wire on signal wire. code not active when Run jumper wire. checked harness from ecm to Ejector sensor. checked continuity sensor Circuit. there was open on harness on signal wire T899-pu. checked continuity each harness found Open on hitch harness. replaced hitch harness. Repair for active codes e441, 3496-3
Feb 17, 2016	Service	561	Repair Transmission	Repair process comments: Found clutch materials in transmission screen During service on machine. checked software . Software's is current software and checked #5 Clutch pressure. pressure is in spec .filled with TRANSMISSION NEW OIL. RUN MACHINE TO OPERATING Temperature several times. drained and refilled TRANSMISSION OIL 2 TIMES. CHECKED SCREEN. SCREEN Is clean after 2 oil changes. replaced Transmission filter. Drain transmission due to break in brass in screen Check software at #5 clutch.

Feb 17, 2016	Service	561	Replace Fire Extinguisher	Repair process comments: Removed fire extinguisher. removed bracket. Mounting holes were drilled way off bracket Holes. bolts were crooked. did not install fire Extinguisher per dave. Replace fire extingusher- broken hose
Feb 17, 2016	Service	561	Adjust Ejector	Repair process comments: Adjusted ejector rollers. Adjust ejector tail rollers
Feb 17, 2016	Service	561	Straighten Ladder/step	Repair process comments: Removed installed panel of left side ladder. Straightened panel. Small dent at lt cab ladder area- straighten
Feb 17, 2016	Service	561	Machine/grind/mill Bumper	REPAIR PROCESS COMMENTS: Sanded and painted front bumper. Sand rough spots & touchup front bumper frame
Feb 17, 2016	Service	561	Inspect Machine	Complete inspection - pictures as necessary
Feb 17, 2016	Service	561	Inspect After Service	
Feb 17, 2016	Service	561	Replace Ejector	Repair process comments: REMOVED INSTALLED LEFT GUIDE ROLLER OF EJECTOR. Replaced with new roller. roller shaft was seized On bore. roller was bent. Replace left side damaged ejector roller.
Feb 17, 2016	Service	561	Machine/grind/mill Push Block/bail	Repair process comments: Grinded rough spots on rear push block and hook . Grinded front push block. Sand rough spots at rear push block & bail hook
Feb 17, 2016	Service	561	Rental Steam Clean Machine	
Feb 17, 2016	Service	561	Inspect Attachments	Verify stock number of attachments
Feb 05, 2016	Service	692	Troubleshoot Transmission	1/28/16 Emp:5179 Trans codes Repair process comments: Located machine and downloaded psr only active Codes were for seat and brake filter. installed New brake filter and code for brake filter went Away.advised operater on adjusting seat in ride Zone. T/s for transmission #2 output speed sensor code
Feb 05, 2016	Service	692	Troubleshoot Transmission	1/28/16 Emp:5179 Trans codes Repair process comments: Located machine and downloaded psr only active Codes were for seat and brake filter. installed New brake filter and code for brake filter went Away.advised operater on adjusting seat in ride Zone. T/s for transmission #2 output speed sensor code

Jan 14, 2016	Service	0	Fill With Fuel Rental Machine	
Jan 14, 2016	Service	0	Load/unload Machine	
Jan 14, 2016	Service	0	Fill With Fuel Rental Machine	
Nov 16, 2015	Service	555	Load/unload Machine	
Nov 16, 2015	Service	555	Inspect Machine Quick Turn	Complete inspection - pictures as necessary
Nov 16, 2015	Service	555	Inspect Machine Quick Turn	Complete inspection - pictures as necessary
Nov 16, 2015	Service	555	Load/unload Machine	
Nov 03, 2015	Service	489	Repair Engine Cooling System	Svc cooling system per sos report Repair process comments: Drained two gallons of coolant out of system in Rear engine and added two gallons of elc Concentrate Sos sample glycol is below 45%
Oct 28, 2015	Service	484	Load/unload Machine	
Oct 28, 2015	Service	484	Fill W/diesel Exh Fluid Rental Machine	Tier 4 final machine only Fill with diesel exhaust fluid (def) eds it
Oct 28, 2015	Service	484	Inspect Machine	Complete inspection - pictures as necessary
Oct 28, 2015	Service	484	Rental Steam Clean Machine	
Oct 28, 2015	Service	484	Repair For Warranty Machine Level Sensor	Perform service letter. Repair process comments: Installed new harness from pitch/roll sensors to Cab as described in service letter ps44748 dated 5-22-15 - used rehs9776 as reference in routing Harness. also updated software as described in Service letter. extra time was due to machine Being very dirty and having to work through dirt And mud to route harness and access connections. Calibrated sensor and cleared all error codes Generated during harness install.

Oct 28, 2015	Service	484	Repair For Warranty Engine Oil Pump	Install oil pump Repair process comments: Removed belly pans from machine. drained coolant INTO CLEAN CONTAINER TO SAVE FOR REUSE. REMOVED Lower radiator hose. removed engine oil pump and Manifold. installed new pump, reused manifold, Used all new seals. refilled coolant, ran machine To verify oil pressure and it was good. rechecked The oil level and installed belly pans.
Oct 28, 2015	Service	484	Load/unload Machine	
Oct 28, 2015	Service	484	Inspect Machine	Complete inspection - pictures as necessary
Oct 28, 2015	Service	484	Replace Ground Engaging Tl (get)	Cutting edges worn. Cause of failure: Use. Resultant damage: Worn. Repair process comments: Flipped routers and installed new edges. CUTTING EDGES WORN. BROKEN BOLTS IN BOWL TO DRAFT Arm guide. Cause of failure: Use. Resultant damage: Worn. Repair process comments: Flip routers and install new edges. removed pins For bowl lift cylinders. lifted and supported Stinger. r&i bolts for guide. reassembled. Replace bucket teeth / edges if needed
Oct 28, 2015	Service	484	Repair For Warranty Engine Oil Pump	Install oil pump Repair process comments: Removed belly pans from machine. drained coolant INTO CLEAN CONTAINER TO SAVE FOR REUSE. REMOVED Lower radiator hose. removed engine oil pump and Manifold. installed new pump, reused manifold, Used all new seals. refilled coolant, ran machine To verify oil pressure and it was good. rechecked The oil level and installed belly pans.
Oct 28, 2015	Service	484	Repair For Warranty Machine Level Sensor	Perform service letter. Repair process comments: Installed new harness from pitch/roll sensors to Cab as described in service letter ps44748 dated 5-22-15 - used rehs9776 as reference in routing Harness. also updated software as described in Service letter. extra time was due to machine Being very dirty and having to work through dirt And mud to route harness and access connections. Calibrated sensor and cleared all error codes Generated during harness install.
Oct 28, 2015	Service	484	Fill W/diesel Exh Fluid Rental Machine	Tier 4 final machine only Fill with diesel exhaust fluid (def) eds it
Oct 28, 2015	Service	484	Rental Steam Clean Machine	

Oct 28, 2015	Service	484	Perform 500 Svc Hour Maint (pm2)	<ul> <li>*notice* The following definition is a general statement And may not cover all the checks that pertain to The model you are working on. always follow Caterpillar operational maintenance manual for Specific instructions for the service you are Performingchange engine oil and filter -change hydraulic and transmission filters -obtain scheduled oil samples - the results of THESE WILL BE SENT TO YOU UPON COMPLETIONclean air intake pre-cleaner bowl -lubricate all grease fittings -drain water separator -CHECK COOLANT CONDITION AND ADD INHIBITOR IF Necessary -check all fluid levels -clean engine crankcase breather replace secondary - clean/replace primary fuel filter and replace Secondary - PERFORM VISUAL OPERATIONAL INSPECTION ************************************</li></ul>
Aug 23, 2015	Service	357	Sale Of	FILTER
Aug 23, 2015	Service	357	Repair Action Alarm	Brake filter plugging warning Repair process comments: Connected et and down loaded ecm's and found 20 LOGGED CODES FOR CHARGE PUMP FILTER PLUGGED IN The last 135 hours. removed filter, cut open and Found no signs of a problem. troubleshot system And switch has failed. replaced bypass filter Switch. will let customer run machine.
Aug 23, 2015	Service	357	Travel To/from Field Service	
Aug 04, 2015	Service	280	Load/unload Machine	
Aug 04, 2015	Service	280	Inspect After Service	
Aug 04, 2015	Service	280	Inspect Machine	Complete inspection and pictures if necessary

Aug 04, 2015	Service	280	Inspect Machine	Complete inspection and pictures if necessary
Aug 04, 2015	Service	280	Perform 250 Svc Hour Maint (pm1)	*NOTICE* The following definition is a general statement And may not cover all the checks that pertain to THE MODEL YOU ARE WORKING ON. ALWAYS FOLLOW Caterpillar operational maintenance manual for SPECIFIC INSTRUCTIONS FOR THE SERVICE YOU ARE Performingchange engine oil and filter - obtain scheduled oil samples - the results of These will be sent to you upon completion -clean air intake pre-cleaner - lubricate all grease fittings -drain water separator -check coolant condition and add inhibitor if NECESSARY -check all fluid levels -perform visual operational inspection -adjust oscillating hitch (when applicable) -check track adjustment (when applicable) ************************************

Aug 04, 2015	Service	280	Inspect After Service	
Aug 04, 2015	Service	280	Perform Indicated Maintenance	Perform only the following items that are needed. These are target hours only. Service air filters (cab & engine) 0.5 hours Grease machine 1.0 hours Check fluid levels 0.5 hours Adjust tire pressure 0.5 hours Adjust tracks 0.5 hours Check wear analysis 0.5 hours Daily maintenance items. See w/o notes for details !
Aug 04, 2015	Service	280	Clean Miscellaneous	Degrease gooseneck hitch area
Aug 04, 2015	Service	280	Add Parts 250 Svc Hour Maint (pm1)	
Aug 04, 2015	Service	280	Touch-up Bumper	Touch up front bumper
Aug 04, 2015	Service	280	Load/unload Machine	
Aug 04, 2015	Service	280	Replace Cutting Edge	Replace cutting edge
Aug 04, 2015	Service	280	Rental Steam Clean Machine	

Aug 04, 2015	Service	280	Check Electronic Mon Sys/panel	Check and clear codes
Aug 04, 2015	Service	280	Check Seat Belt	Check seat belt / if expired or in poor shape Replace
Aug 04, 2015	Service	280	Rental Steam Clean After Service	
Aug 04, 2015	Service	280	Machine/grind/mill Miscellaneous	Degrease and deburr front hitch
Aug 04, 2015	Service	280	Touch-up Push Plate	DGREASE AND DEBURR REAR PUSH PLATE. TOUCH UP IF Needed
Jun 25, 2015	Service	180	Load/unload Machine	
Jun 25, 2015	Service	180	Inspect Machine	Repair process comments: Inspected machine. Repair process comments: Inspected machine. Complete inspection - pictures as necessary
Jun 25, 2015	Service	180	Inspect After Service	
Jun 25, 2015	Service	180	Rental Steam Clean Machine	
Jun 25, 2015	Service	180	Repair For Warranty Expansion Tank	Repair process comments: Tighthed hose clamp on bottom hose on coolant Tank.drained coolant. replaced coolant tank hoses From radiator and from tank to regulator Housing.replaced clamps. refilled coolant Pressurized coolant system . coolant system was Not hold pressure leaking on coolant tank hoses New clamp tension not good enough stop leak. Replaced with different clamps p/n 5d1026.this Clamp tension is stop leak on coolant tank hoses. Repair process comments: Tighthed hose clamp on bottom hose on coolant Tank.drained coolant. replaced coolant tank hoses From radiator and from tank to regulator HOUSING.REPLACED CLAMPS. REFILLED COOLANT PRESSURIZED COOLANT SYSTEM . COOLANT SYSTEM WAS Not hold pressure leaking on coolant tank hoses New clamp tension not good enough stop leak. REPLACED WITH DIFFERENT CLAMPS P/N 5D1026.THIS Clamp tension is stop leak on coolant tank hoses. Replace front engine coolant tank hoses and clamps
Jun 17, 2015	Service	186	Load/unload Machine	

May 20, 2015	Service	47	Travel To/from Work Area	Travel to and from cr 133, new raymer, co
May 20, 2015	Service	47	Troubleshoot Parking Brake	Repair process comments: REPLACE FILTER ELEMENT FOR BRAKE CHARGE, CUSHION Hitch bypass switch open. troubleshoot wiring. Blow out connector mid frame and reconnect. check Operation. Code e1225-2
May 20, 2015	Service	47	Travel To/from Work Area	Travel to and from cr 133, new raymer, co
May 20, 2015	Service	47	Troubleshoot Parking Brake	Repair process comments: REPLACE FILTER ELEMENT FOR BRAKE CHARGE, CUSHION Hitch bypass switch open. troubleshoot wiring. Blow out connector mid frame and reconnect. check Operation. Code e1225-2
Apr 08, 2015	Service	17	Load/unload Machine	
Mar 11, 2015	Service	14	Install Radio	Customer complaint: Install cq-c1333u radio Repair process comments: I INSTALLED THE RADIO TO THE MACHINE. I INSTALLED A deutsch connector to the wiring harness Provided with the radio. i installed the sleeve Into the headliner. i connected the machine Wiring harness to the radio harness. i connected The antenna cable to the radio. i installed the Radio into the sleeve in headliner. i checked the Operation of the radio. Install cq-c1333u radio
Mar 11, 2015	Service	14	Install Inst/warning Plate/film	CUSTOMER COMPLAINT: Install smv sign & lube decal If this machine has a tier 4 engine with a regen Switch please install sticker part# aexq0681 Repair process comments: I installed an smv sign to the rear radiator guard Of the machine. i installed an sos lube decal in The cab of the machine. this machine has tier 4 Final engines so i installed the tier 4 final Regen decal. Install smv sign & lube decal ************************************
Mar 11, 2015	Service	14	Install Ether Starting Aid	Customer complaint: Install ether canister if required Repair process comments: I installed an ether canister to both the front And rear engines. i used et to check the Configuration of the ether solenoid and made sure It was set up for continuous flow. Install ether canister if required
Mar 11, 2015	Service	14	Touch-up Machine	

Mar 11, 2015	Service	14	Repair Miscellaneous	Customer complaint: Make rental ready Repair process comments: I installed wagner and rental decals to the Machine. i installed an american flag decal to The machine. i attached a safety manual to the O&m guide and installed them to the seat back in The cab. Make machine rental ready
Mar 11, 2015	Service	14	Test/check & Adjust Product Link System	Customer complaint: Activate & register product link / retrieve device Serial no. Install condition monitoring decal in conspicuous Location inside cab that does not interfere with Critical viewing area of windows. Repair process comments: I used et to send a registration message to Deborah sanchez for product link. i installed a Condition monitoring decal inside cab. Activate & register product link / retreive device Serial no. install condition monitoring decal in Conspicuous location inside cab that does not Interfere with critical viewing area of windows
Mar 11, 2015	Service	14	Performance Test Machine	
Mar 11, 2015	Service	14	Pre-deliver Machine	Customer complaint: PRE-DELIVER MACHINE Repair process comments: I performed a full pre-delivery on the machine. i Used the wheel tractor-scraper pre-delivery Checklist and new machine supplement form as a Reference. i performed a full visual inspection Of the machine. i checked all service points and Fluid levels. i checked the operation of all Switches and controls.

## FLUID ANALYSIS (81 Records)

Sep 04, 2023	e Monitor	7,869	Hydraulic System	SAMPLE SHOWS A HIGH AMOUNT OF FINE MAGNETIC DEBRIS THAT PREVENTS PARTICLE COUNT FROM BEING TESTED. ALL OTHER DATA IS NORMAL. ADVISE USING ADVANCED EFFICIENCY FILTERS TO HELP REDUCE SYSTEM CONTAMINATION. RESAMPLE IN 250 HRS AND RETURN TO USE OF STANDARD FILTERS.
Sep 04, 2023	No Action Required	7,869	Transmission Power Shift Front	WEAR PATTERN IS ACCEPTABLE AT THIS TIME. RESAMPLE AT THE NORMAL INTERVAL.
Sep 04, 2023	e Action Required	7,869	Engine Rear	IRON IS HIGH. CHECK AIR FILTERS FOR PLUGGING. HIGH LEVELS OF OXIDATION AND SULFATION TOGETHER ARE SIGNS OF HIGH FUEL CONSUMPTION. LEAD IS EXTREMELY HIGH. CK FOR POSSIBLE OVERLOAD CONDITIONS. MONITOR FOR FLUCTUATIONS/DROP IN OIL PRESSURE. CHG OIL & FILTER(S) & RESAMPLE IN 100 HRS. CK FILTER FOR VISIBLE METAL AT THAT TIME.
Sep 04, 2023	🥚 Monitor	7,869	Radiator Rear	NITRITES (NO2) ARE LOW. ADD (1) ELC EXTENDER, PART #119-5152. RESAMPLE AT THE NORMAL INTERVAL.
Sep 04, 2023	🦲 Monitor	7,869	Radiator Rear	NITRITES (NO2) ARE LOW. ADD (1) ELC EXTENDER, PART #119-5152. RESAMPLE AT THE NORMAL INTERVAL.
Sep 04, 2023	e Action Required	7,869	Engine Front	SILICON AND ALUMINUM IN THIS RATIO USUALLY INDICATE DIRT ENTRY. CHECK AIR INDUCTION SYSTEM FOR DIRT ENTRY & REPAIR IF NECESSARY. HIGH LEVELS OF OXIDATION AND SULFATION TOGETHER ARE SIGNS OF HIGH FUEL CONSUMPTION. LEAD IS EXTREMELY HIGH. CK FOR POSSIBLE OVERLOAD CONDITIONS. MONITOR FOR FLUCTUATIONS/DROP IN OIL PRESSURE. CHG OIL & FILTER(S) & RESAMPLE IN 100 HRS.

Sep 04, 2023	No Action Required	7,869	Transmission Power Shift Rear	WEAR PATTERN IS ACCEPTABLE AT THIS TIME. RESAMPLE AT THE NORMAL INTERVAL.
Sep 04, 2023	No Action Required	7,869	Radiator Front	SYSTEM CONDITIONS ARE ACCEPTABLE AT THIS TIME. RESAMPLE AT THE NORMAL INTERVAL.
Sep 04, 2023	No Action Required	7,869	Final Drive Rear Left	WEAR PATTERN IS ACCEPTABLE AT THIS TIME. RESAMPLE AT THE NORMAL INTERVAL.
Sep 04, 2023	No Action Required	7,869	Radiator Front	SYSTEM CONDITIONS ARE ACCEPTABLE AT THIS TIME. RESAMPLE AT THE NORMAL INTERVAL.
Sep 04, 2023	No Action Required	7,869	Brake Cooling Oil	WEAR PATTERN IS ACCEPTABLE AT THIS TIME. RESAMPLE AT THE NORMAL INTERVAL.
Sep 04, 2023	No Action Required	7,869	Final Drive Front Left	WEAR PATTERN IS ACCEPTABLE AT THIS TIME. RESAMPLE AT THE NORMAL INTERVAL.
Sep 04, 2023	🦲 Monitor	7,869	Radiator Rear	NITRITES (NO2) ARE LOW. ADD (1) ELC EXTENDER, PART #119-5152. RESAMPLE AT THE NORMAL INTERVAL.
Sep 04, 2023	No Action Required	7,869	Final Drive Rear Right	WEAR PATTERN IS ACCEPTABLE AT THIS TIME. RESAMPLE AT THE NORMAL INTERVAL.
Sep 04, 2023	No Action Required	7,869	Final Drive Front Right	WEAR PATTERN IS ACCEPTABLE AT THIS TIME. RESAMPLE AT THE NORMAL INTERVAL.
Sep 04, 2023	No Action Required	7,869	Radiator Front	SYSTEM CONDITIONS ARE ACCEPTABLE AT THIS TIME. RESAMPLE AT THE NORMAL INTERVAL.

Oct 11, 2021	No Action Required	6,284	Hydraulic System	NO ABNORMAL WEAR IS EVIDENT IN THE ELEMENTAL READINGS. WEAR PATTERN IS ACCEPTABLE AT THIS TIME. RESAMPLE AT THE NORMAL INTERVAL. TESTED TO ASTM STANDARDS. CORRECTED REPORT.
Sep 15, 2021	No Action Required	6,214	Final Drive Rear Left	WEAR PATTERN IS ACCEPTABLE AT THIS TIME. RESAMPLE IN 500 HRS.
Sep 15, 2021	No Action Required	6,214	Radiator Rear	SYSTEM CONDITIONS ARE ACCEPTABLE AT THIS TIME. RESAMPLE AT THE NORMAL INTERVAL.
Sep 15, 2021	No Action Required	6,214	Final Drive Front Right	WEAR PATTERN IS ACCEPTABLE AT THIS TIME. RESAMPLE IN 500 HRS.
Sep 15, 2021	🦲 Monitor	6,214	Engine Front	SOOT AND IRON ARE HIGH. CHECK AIR FILTERS FOR PLUGGING. LEAD IS SLIGHTLY HIGH. MOST OF THIS MAY BE DUE TO OVERUSING THE OIL. OIL WAS CHG'D AT THIS TIME. RESAMPLE IN 100 HRS.
Sep 15, 2021	No Action Required	6,214	Radiator Front	SYSTEM CONDITIONS ARE ACCEPTABLE AT THIS TIME. RESAMPLE AT THE NORMAL INTERVAL.
Sep 15, 2021	No Action Required	6,214	Differential Front	WEAR PATTERN IS ACCEPTABLE AT THIS TIME. RESAMPLE IN 500 HRS.
Sep 15, 2021	No Action Required	6,214	Transmission Power Shift Front	WEAR PATTERN IS ACCEPTABLE AT THIS TIME. RESAMPLE IN 500 HRS.
Sep 15, 2021	No Action Required	6,214	Engine Rear	WEAR PATTERN IS ACCEPTABLE AT THIS TIME. RESAMPLE IN 500 HRS.
Sep 15, 2021	No Action Required	6,214	Final Drive Front Left	WEAR PATTERN IS ACCEPTABLE AT THIS TIME. RESAMPLE IN 500 HRS.

Sep 15, 2021	No Action Required	6,214	Final Drive Rear Right	WEAR PATTERN IS ACCEPTABLE AT THIS TIME. RESAMPLE IN 500 HRS.
Sep 15, 2021	No Action Required	6,214	Hydraulic System	WEAR PATTERN IS ACCEPTABLE AT THIS TIME. RESAMPLE AT THE NORMAL INTERVAL. TESTED TO ASTM STANDARDS.
Sep 15, 2021	🌒 No Action Required	6,214	Differential Rear	WEAR PATTERN IS ACCEPTABLE AT THIS TIME. RESAMPLE IN 500 HRS.
Sep 15, 2021	🌒 No Action Required	6,214	Transmission Power Shift Rear	WEAR PATTERN IS ACCEPTABLE AT THIS TIME. RESAMPLE IN 500 HRS.
Sep 15, 2021	🦲 Monitor	6,214	Brake Cooling Oil	SILICON, NICKEL, AND IRON DECREASED BUT REMAIN ELEVATED. OIL WAS CHG'D AT THIS TIME. IF ALL PRELIMINARY CHECKS ARE NORMAL THEN RESAMPLE IN 500 HRS. TESTED TO ASTM STANDARDS.
Sep 07, 2020	No Action Required	4,948	Engine Front	WEAR PATTERN IS ACCEPTABLE AT THIS TIME. RESAMPLE AT THE NORMAL INTERVAL. TESTED TO ASTM STANDARDS.
Sep 07, 2020	– Monitor	4,948	Engine Rear	SOOT HAS INCREASED. IRON IS HIGH. CHECK AIR FILTERS FOR PLUGGING. HIGH OR INCREASED LEAD (PB) SHOWS BEARING WEAR. CK FOR POSSIBLE OVERLOAD CONDITIONS. CK FOR PROPER OPERATING TEMP. SODIUM IS SLIGHTLY HIGH. HOWEVER, THE GLYCOL TEST WAS NEGATIVE. RESAMPLE IN 250 HRS.
Sep 07, 2020	No Action Required	4,948	Final Drive Rear Left	WEAR PATTERN IS ACCEPTABLE AT THIS TIME. RESAMPLE IN 500 HRS.

Sep 07, 2020	No Action Required	4,948	Final Drive Front Right	WEAR PATTERN IS ACCEPTABLE AT THIS TIME. RESAMPLE IN 500 HRS.
Sep 07, 2020	No Action Required	4,948	Differential Front	WEAR PATTERN IS ACCEPTABLE AT THIS TIME. RESAMPLE IN 500 HRS.
Sep 07, 2020	No Action Required	4,948	Hydraulic System	WEAR PATTERN IS ACCEPTABLE AT THIS TIME. RESAMPLE AT THE NORMAL INTERVAL. TESTED TO ASTM STANDARDS.
Sep 07, 2020	No Action Required	4,948	Transmission Power Shift Rear	WEAR PATTERN IS ACCEPTABLE AT THIS TIME. RESAMPLE AT THE NORMAL INTERVAL. TESTED TO ASTM STANDARDS.
Sep 07, 2020	Action Required	4,948	Radiator Front	COPPER CORROSION IS HIGH. ONCE CORROSION HAS STARTED, IT CAN'T BE REVERSED, THE COOLING SYSTEM MUST BE DRAINED AND FLUSHED TO STOP THE CORROSION. CHECK TO SEE IF SYSTEM IS OVERHEATING. CHECK FOR GOOD AIR FLOW TO THE RADIATOR. DRAIN SYSTEM. FLUSH 3 - 5 TIMES WITH GOOD QUALITY WATER. REFILL WITH NEW RECOMMENDED COOLANT. RESAMPLE IN 90 DAYS.
Sep 07, 2020	🛑 No Action Required	4,948	Radiator Rear	SYSTEM CONDITIONS ARE ACCEPTABLE AT THIS TIME. RESAMPLE AT THE NORMAL INTERVAL.
Sep 07, 2020	🌒 No Action Required	4,948	Final Drive Rear Right	WEAR PATTERN IS ACCEPTABLE AT THIS TIME. RESAMPLE IN 500 HRS.
Sep 07, 2020	🛑 No Action Required	4,948	Differential Rear	WEAR PATTERN IS ACCEPTABLE AT THIS TIME. RESAMPLE IN 500 HRS.
Sep 07, 2020	No Action Required	4,948	Transmission Power Shift Front	WEAR PATTERN IS ACCEPTABLE AT THIS TIME. RESAMPLE AT THE NORMAL INTERVAL. TESTED TO ASTM STANDARDS.

Sep 07, 2020	No Action Required	4,948	Final Drive Front Left	WEAR PATTERN IS ACCEPTABLE AT THIS TIME. RESAMPLE IN 500 HRS.
Mar 23, 2020	No Action Required	4,682	Engine Front	VISCOSITY & ADDITIVES ARE NORMAL FOR 10W30 ENGINE OIL. WEAR PATTERN IS ACCEPTABLE AT THIS TIME. RESAMPLE IN 250 HRS.
Mar 23, 2020	No Action Required	4,682	Transmission Power Shift Front	WEAR PATTERN IS ACCEPTABLE AT THIS TIME. RESAMPLE AT THE NORMAL INTERVAL. TESTED TO ASTM STANDARDS.
Mar 23, 2020	No Action Required	4,682	Hydraulic System	WEAR PATTERN IS ACCEPTABLE AT THIS TIME. RESAMPLE AT THE NORMAL INTERVAL. TESTED TO ASTM STANDARDS.
Mar 23, 2020	🦲 Monitor	4,682	Engine Rear	WEAR PATTERN IS IMPROVING. RESAMPLE IN 150 HRS TO MONITOR.
Mar 23, 2020	No Action Required	4,682	Transmission Power Shift Rear	WEAR PATTERN IS ACCEPTABLE AT THIS TIME. RESAMPLE AT THE NORMAL INTERVAL. TESTED TO ASTM STANDARDS.
Oct 10, 2019	e Action Required	4,427	Engine Rear	SAMPLE IS HEAVILY CONTAMINATED WITH WATER. SODIUM & POTASSIUM ARE HIGH. POSITIVE RESULT ON CHEMICAL TEST FOR GLYCOL. LOCATE SOURCE OF COOLANT ENTRY. POSSIBLE SOURCES INCLUDE A LEAKING HEAD GASKET, LINER SEAL, COOLER CORE, WATER PUMP, ETC. REPAIR IF NECESSARY. SILICON AND ALUMINUM IN THIS RATIO USUALLY INDICATE DIRT ENTRY. CHECK AIR INDUCTION SYSTEM FOR DIRT ENTRY & REPAIR IF NECESSARY. FLUSH SYSTEM AND RESAMPLE IN 50 HRS.
Apr 22, 2019	No Action Required	4,255	Engine Rear	WEAR PATTERN IS IMPROVING. VISCOSITY & ADDITIVES ARE NORMAL FOR 10W30 ENGINE OIL. PFC HAS DECREASED TO 1.42% WHICH IS NORMAL. SILICON IS HIGH. COULD BE A SILICONE SEALANT/GASKET MATERIAL. RESAMPLE IN 250 HRS.

Apr 22, 2019	No Action Required	4,255	Hydraulic System	WEAR PATTERN IS ACCEPTABLE AT THIS TIME. RESAMPLE IN 500 HRS.
Apr 22, 2019	No Action Required	4,255	Engine Front	WEAR PATTERN IS ACCEPTABLE AT THIS TIME. RESAMPLE IN 250 HRS.
Apr 22, 2019	No Action Required	4,255	Transmission Power Shift Front	WEAR PATTERN IS ACCEPTABLE AT THIS TIME. RESAMPLE AT NORMAL INTERVAL.
Sep 13, 2018	No Action Required	3,865	Differential Rear	NO PROBLEMS INDICATED AT THIS TIME. RESAMPLE AT THE NORMAL INTERVAL.
Sep 13, 2018	Action Required	3,865	Radiator Front	LEV 2 CLNT. 75% OF THE "TT," WHICH PROTECTS THE SOFT METALS, HAS BEEN DEPLETED. COPPER CORROSION IS HIGH AS A RESULT. CHECK TO SEE IF SYSTEM IS OVERHEATING. CK FOR HIGH TEMP FAULT CODES. (IF EQUIPPED). DRAIN SYSTEM. FLUSH 3 - 5 TIMES WITH GOOD QUALITY WATER. REFILL WITH NEW RECOMMENDED COOLANT. RSMPL WITH ANOTHER LEV 2 TEST IN 90 DAYS.
Sep 13, 2018	No Action Required	3,865	Differential Front	NO PROBLEMS INDICATED AT THIS TIME. RESAMPLE AT THE NORMAL INTERVAL.
Sep 13, 2018	No Action Required	3,865	Hydraulic System	WEAR PATTERN IS ACCEPTABLE AT THIS TIME. RESAMPLE IN 500 HRS.
Sep 13, 2018	e Monitor	3,865	Radiator Rear	LEV 2 CLNT. PH IS BELOW THE PREFERRED MINIMUM FOR THIS PRODUCT. 50% OF THE "TT," WHICH PROTECTS THE SOFT METALS, HAS BEEN DEPLETED. RAPID DROP IN PH IS OFTEN A SIGN OF OVERHEATING. CHECK TO SEE IF SYSTEM IS OVERHEATING. CHECK FOR GOOD AIR FLOW TO THE RADIATOR. TRACE OF OIL IS PROBABLY SAMPLE CONTAMINATION. ADD (1) ELC EXTENDER, PART #119- 5152. CK TO BE SURE THE SAMPLING MATERIALS ARE CLEAN & DRY & RESAMPLE AT NORMAL INTERVAL TO VERIFY OIL IN THE SYSTEM.

Sep 13, 2018	No Action Required	3,865	Final Drive Front Right	NO PROBLEMS INDICATED AT THIS TIME. RESAMPLE AT THE NORMAL INTERVAL.
Sep 13, 2018	No Action Required	3,865	Final Drive Rear Left	NO PROBLEMS INDICATED AT THIS TIME. RESAMPLE AT THE NORMAL INTERVAL.
Sep 13, 2018	No Action Required	3,865	Transmission Power Shift Rear	WEAR PATTERN IS ACCEPTABLE AT THIS TIME. RESAMPLE IN 500 HRS.
Sep 13, 2018	No Action Required	3,865	Final Drive Rear Right	NO PROBLEMS INDICATED AT THIS TIME. RESAMPLE AT THE NORMAL INTERVAL.
Sep 13, 2018	Action Required	3,865	Brake Cooling Oil	IRON IS HIGH. UNABLE TO GET AN ACCURATE PARTICLE COUNT. CHECK FOR ABNORMAL NOISE/PERFORMANCE. REPAIR IF NECESSARY. LABEL SAID THE OIL WAS CHANGED AT THIS TIME. RESAMPLE IN 250 HRS.
Sep 13, 2018	🦲 Monitor	3,865	Engine Front	SOOT CONTENT IS HIGH. MIGHT BE CAUSED BY EXTENDED USAGE PERIOD. CHECK AIR FILTERS FOR PLUGGING. RESAMPLE IN 250 HRS.
Sep 13, 2018	No Action Required	3,865	Final Drive Front Left	NO PROBLEMS INDICATED AT THIS TIME. RESAMPLE AT THE NORMAL INTERVAL.
Sep 13, 2018	Action Required	3,865	Engine Rear	G.C SHOWS 15.76% FUEL DILUTION, WHICH IS EXCESSIVE. VISCOSITY IS ALMOST DILUTED TO 10W. UNLESS THE AMOUNT OF IDLE TIME HAS BEEN VERY EXCESSIVE, CHECK AND REPAIR SOURCE OF FUEL ENTRY. POSSIBLE SOURCES OF FUEL DILUTION INCLUDE LEAKING INJECTORS, INJECTOR O-RINGS, FAILED INJECTORS, AND FUEL TRANSFER PUMP. FLUSH SYSTEM AND RESAMPLE IN 50 HRS. NOTIFIED GR JCT SHOP BY PHONE.

Sep 13, 2018	No Action Required	3,865	Transmission Power Shift Front	WEAR PATTERN IS ACCEPTABLE AT THIS TIME. RESAMPLE IN 500 HRS.
Feb 07, 2018	🦲 Monitor	3,284	Engine Rear	WEAR PATTERN IS ACCEPTABLE AT THIS TIME. VISCOSITY IS NORMAL FOR 10W30. VERIFY VISCOSITY IN USE. RESAMPLE IN 250 HRS.
Jan 23, 2018	Action Required	3,396	Engine Rear	SOOT AND IRON ARE HIGH. CHECK AIR FILTERS FOR PLUGGING. HIGH LEVELS OF OXIDATION AND SULFATION TOGETHER ARE SIGNS OF HIGH FUEL CONSUMPTION. HIGH OR INCREASED LEAD (PB) SHOWS BEARING WEAR. LEAD IS HIGH. CK FOR POSSIBLE OVERLOAD CONDITIONS. CHECK FOR OVERHEATING. CK FOR GOOD AIR FLOW TO THE RADIATOR. LOW VISCOSITY AS A RESULT OF 18.36% FUEL DILUTION. CHECK FUEL SYSTEM AND REPAIR AS NEEDED. AFTER REPAIRS, FLUSH SYTEM AND RESAMPLE IN 50 HOURS.
Jan 23, 2018	🦲 Monitor	3,396	Brake Cooling Oil	IRON IS HIGH. UNABLE TO GET AN ACCURATE PARTICLE COUNT. ADVISE REDUCING OIL CHANGE BASED ON WEAR RATES. CHG OIL & RESAMPLE IN 500 HRS.
Jan 23, 2018	🌒 No Action Required	3,396	Final Drive Front Right	WEAR PATTERN IS ACCEPTABLE AT THIS TIME. RESAMPLE AT NORMAL INTERVAL.
Jan 23, 2018	No Action Required	3,396	Final Drive Rear Left	WEAR PATTERN IS ACCEPTABLE AT THIS TIME. RESAMPLE AT THE NORMAL INTERVAL.
Jan 23, 2018	No Action Required	3,396	Final Drive Rear Right	WEAR PATTERN IS ACCEPTABLE AT THIS TIME. RESAMPLE AT NORMAL INTERVAL.
Jan 22, 2018	🌔 No Action Required	3,396	Transmission Power Shift Front	WEAR PATTERN IS ACCEPTABLE AT THIS TIME. RESAMPLE IN 500 HRS.

Jan 22, 2018	No Action Required	3,396	Differential Rear	WEAR PATTERN IS ACCEPTABLE AT THIS TIME. RESAMPLE AT THE NORMAL INTERVAL.
Jan 22, 2018	No Action Required	3,396	Differential Front	WEAR PATTERN IS ACCEPTABLE AT THIS TIME. RESAMPLE AT NORMAL INTERVAL.
Jan 22, 2018	No Action Required	3,396	Transmission Power Shift Rear	WEAR PATTERN IS ACCEPTABLE AT THIS TIME. RESAMPLE IN 500 HRS.
Jan 22, 2018	No Action Required	3,396	Hydraulic System	WEAR PATTERN IS ACCEPTABLE AT THIS TIME. RESAMPLE IN 500 HRS.
Jan 22, 2018	e Monitor	3,396	Engine Front	SOOT AND IRON ARE HIGH. CHECK AIR FILTERS FOR PLUGGING. HIGH LEVELS OF OXIDATION AND SULFATION TOGETHER ARE SIGNS OF HIGH FUEL CONSUMPTION. CK FOR POSSIBLE OVERLOAD CONDITIONS. CHECK FOR OVERHEATING. CK FOR GOOD AIR FLOW TO THE RADIATOR. RESAMPLE IN 250 HRS.
Jan 22, 2018	No Action Required	3,396	Final Drive Front Left	WEAR PATTERN IS ACCEPTABLE AT THIS TIME. RESAMPLE AT NORMAL INTERVAL.

PSP (27 Records)

Start Date	End Date	PSP No.	Description	Status
Aug 06, 2024	Jun 29, 2026	PS48129	Replacing 5550529 flow control valve on	😑 Open
Jul 02, 2024	Jul 30, 2026	PS55329	Reworking the tractor bumper casting on	😑 Open
May 20, 2024	May 30, 2026	PS55293	Installing new duo cone seal retainer an	😑 Open
Apr 21, 2024	Apr 29, 2026	PS48078	Replacing exhaust pipe clipping hardware	😑 Open
Mar 21, 2023	Mar 30, 2025	PS55046	Updating scraper brake seals for certain	😑 Open
Mar 30, 2021	Oct 30, 2022	PS46880	Reworking the differential lock system o	Completed
Mar 24, 2021	Oct 30, 2022	PS46877	Replacing the cushion hitch harness on c	Completed
Apr 19, 2020	Dec 30, 2022	PS46643	Replacing pl542 to pl542v2 cellular radi	Completed
Jan 27, 2020	Nov 29, 2021	PS46472	Replacing tractor accessory belt on cert	Completed
Dec 01, 2019	Mar 30, 2021	PS46141	Replacing the caterpillar advanced ride	Completed
Mar 10, 2019	Sep 29, 2020	PS45999	Reworking 380-4910 cushion hitch valve o	Completed
Feb 19, 2019	Feb 27, 2021	PS53992	Updating the torque limiter drive shaft	Completed
Jun 12, 2017	Jun 29, 2019	PS45509	Replacing the tractor engine accessory b	Completed
Mar 13, 2017	Nov 29, 2017	PS53224	Replacing the common rail fuel pump on c	Completed
Feb 12, 2017	Dec 30, 2018	PS45337	Reworking the differential lock system o	Completed
Jun 07, 2016	Apr 29, 2018	PS45056	Installing new engine and aftertreatment	Completed
Mar 27, 2016	Mar 30, 2018	PS45031	Installing a longer cushion hitch harnes	Completed
May 21, 2015	May 30, 2016	PS44748	Installing new software and new hardware	Completed
Mar 27, 2023	Jun 29, 2024	PS54887	Updating tractor brake seals for certain	e Expired
Oct 16, 2022	Dec 30, 2023	PS47281	Installing draft frame reinforcement pla	e Expired
Jun 26, 2022	Jul 30, 2022	PS54360	Replacing the def pump on certain caterp	e Expired
Dec 06, 2021	Dec 30, 2023	PS54756	Installing a differential spider on cert	e Expired
Dec 17, 2019	Dec 30, 2019	PS46152	Installing product link pl542 or pl240b	e Expired
Jan 30, 2019	Jun 29, 2019	PS53383	Replacing the nrs cooler on certain 621k	Expired
May 24, 2018	May 30, 2020	PS53763	Replacing the cushion hitch harness on c	e Expired
Aug 22, 2017	Aug 30, 2019	PS53551	Replacing the nrs cooler on c9.3 engine	e Expired
Apr 09, 2017	Jan 30, 2019	PS53377	Replacing the 6p-7709 bearing cage on ce	e Expired