

Catalog #: 248625

Delivery Date: Unknown

Service Date	Invoice Type	Hours	Description	Service Notes
01/06/1999	Service	1371	REPAIR ELECTRICAL SYSTEM	CUSTOMER REPORT'S: HOUR METER AND SOME INSTRUMENT STAYED LIT WHEN MASTER SWITCH WAS SHUT OFF. CAUSE OF FAILURE: TESTED SYSTEM WITH MASTER SWITCH SHUT OFF AND MOST OF THE RELAYS WORKED TO SOME DEGREE.STARTER AND MAIN POWER RELAY. REPAIR INCLUDED: TESTED CONTINUITY ACROSS MASTER SWITCH AND FOUND IT OK, BUT STILL A GROUND WAS PRESENT. INFORMED CUSTOMER AND HE MADE THE DECISION TO PURSUE IT. FOUND ACCESSORY AM/FM AND CB HOOKED UP TO ONE BATTERY. THAT WAS THE FALSE GROUND. UNHOOKED AND THEN TESTED RADIO PLUG TO SHOW THE PROPER HOOK-UP. LEFT IT MARKED FOR HIM. NO FURTHER REPAIRS DONE. 12/28/98 #1854
01/06/1999	Service	1371	TRAVEL TO/FROM ZONE TWO	
03/07/2000	Service	2674	REPAIR FOR WARRANTY: SOFTWARE	PERFORMED PI3335 AS PER S.L. 12/5/99. INSTALLED UPDATED SOFTWARE IN TRANSMISSION ECM.
03/07/2000	Service	2674	REPAIR FOR WARRANTY: FUEL LEVEL GAUGE/DIPSTICK	PERFORMED PS4594 AS PER S.L. 10/12/98. INSTALLED UPDATED FUEL INDICATOR & SENSOR KIT. ** MOTOR GRADER SUPPORT PROGRAM **
03/07/2000	Service	2674	REPAIR FOR WARRANTY: TRANS.ELECTRONIC CONTROL	PERFORMED PS5485 AS PER S.L. 4/6/99. INSTALLED UPDATED TRANSMISSION SHIFT CONTROL. ** MOTOR GRADER SUPPORT PROGRAM **
03/07/2000	Service	2674	REPAIR FOR WARRANTY: FLYWHEEL CLUTCH CONTROL	PERFORMED PS5371 AS PER S.L. 11/18/97. INSTALLED UPDATED INCHING CABLE. ** MOTOR GRADER SUPPORT PROGRAM **
03/07/2000	Service	2674	TRAVEL TO/FROM ZONE TWO	
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03/07/2000	Service	2674	REPAIR FOR WARRANTY: FUEL LEVEL GAUGE/DIPSTICK	PERFORMED PS4594 AS PER S.L. 10/12/98. INSTALLED UPDATED FUEL INDICATOR & SENSOR KIT. ** MOTOR GRADER SUPPORT PROGRAM **
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03/07/2000	Service	2674	TRAVEL TO/FROM ZONE TWO	
08/17/2000	Service	3020	INSPECT MACHINE	
08/17/2000	Service	3020	REPAIR USE CODE 3030	CUSTOMER COMPLAINT: LEAKING OIL CAUSE OF FAILURE: COUNTER SHAFT SEAL LEAKING. LIP SEAL HARD AND BRITTLE. RESULTANT DAMAGE: LOSS OF TRANS. OIL REPAIR COMPLETED: REMOVE NECESSARY GUARDS AND PANELS, FAN, V-BELTS, AND PULLEY. R&I SEAL. REINSTALL GUARDS, PANELS, FAN, V-BELTS AND PULLEY. ADD NECESSARY FLUID TO RADIATOR AND TRANS.. START MACHINE AND CHECK FOR LEAKS - O.K.. THOROUGHLY CLEAN RADIATOR AND CONDENSOR. (07/13/2000-2726) ----- CUSTOMER REPORTS: REPAIR POWER SHIFT TRANSMISSION RESULTANT DAMAGE: FAN DRIVE PULLEY SHAFT SEAL IS LEAKING. REPAIRED INCLUDED: INSTALLED NEW SEAL AND IT WAS STILL LEAKING. D&A TRANSMISSION AND CHECK SEAL RING ON OUT PUT SHAFT. FOUND ONE BROKEN. INSTALLED NEW SEAL RINGS AND SEAL. INSTALLED NEW V-BELTS BECAUSE OF OIL (7/28 - 1232)
08/17/2000	Service	3020	REPAIR AIR INDUCTION & EXH SYSTE	CUSTOMER COMPLAINT: REPAIR AIR INDUCTION SYSTEM. CAUSE OF FAILURE: STUD BROKEN OFF NEAR #6 CYL. RESULTANT DAMAGE: EXHAUST LEAK REPAIR COMPLETED: REMOVE NECESSARY INTAKE HOSES AND OR TUBES. REMOVE TURBO AND MUFFLER. REMOVE EXHAUST, CHECK MANIFOLD - CRACKED. REINSTALL NEW MANIFOLD USING NEW GASKETS, STUDS, WASHERS, SPACERS AND HEAT SHIELD. REINSTALL TURBO USING NEW RETAINING BOLTS, NUTS AND GASKETS. START MACHINE AND CHECK FOR LEAKS. O.K.. (07/14/2000-2726) -----
08/17/2000	Service	3020	REPAIR OIL PAN	OIL DRAIN IS LEAKING. YY CUSTOMER COMPLAINT: LEAKING OIL AT OIL DRAIN. CAUSE OF FAILURE: TAPERED SEAT AT OIL PAN ADAPTER DAMAGED. REPAIR COMPLETED: DRAIN ENGINE OIL. R&I DRAIN ADAPTER USING NECESSARY GASKETS AND OR O-RING SEALS. R&I OIL FILTER. REFILL ENGINE COMPARTMENT. START MACHINE AND CHECK FOR LEAKS. O.K.. (07/14/2000-2726) -----
08/17/2000	Service	3020	REPAIR BACKUP ALARM	CUSTOMER REPORTS: REMOVE AND INSTALL BACK-UP ALARM. RESULTANT DAMAGE: WAS WORKING BUT COULD NOT HEAR. REPAIRED INCLUDED: REMOVE AND INSTALL BACK-UP ALARM. (7/28 - 1232)
08/17/2000	Service	3020	REPAIR FAN DRIVE ASSEMBLY	CUSTOMER REPORTS: FAN DRIVE LEAKING OIL. REPAIRED INCLUDED: REMOVED BELTS AND PULLEYS. REMOVED OLD SEAL. INSTALLED NEW SEAL, STILL LEAKS. MACHINE WILL HAVE TO COME TO SHOP TO REPLACE SHAFT SEAL RINGS IN TRANS. (8/1 - 3230)
08/17/2000	Service	3020	INSPECT MACHINE	

08/17/2000	Service	3020	REPAIR USE CODE 3030	<p>CUSTOMER COMPLAINT: LEAKING OIL CAUSE OF FAILURE: COUNTER SHAFT SEAL LEAKING. LIP SEAL HARD AND BRITTLE. RESULTANT DAMAGE: LOSS OF TRANS. OIL REPAIR COMPLETED: REMOVE NECESSARY GUARDS AND PANELS, FAN, V-BELTS, AND PULLEY. R&I SEAL. REINSTALL GUARDS, PANELS, FAN, V-BELTS AND PULLEY. ADD NECESSARY BLUID TO RADIATOR AND TRANS. START MACHINE AND CHECK FOR LEAKS - O.K.. THOROUGHLY CLEAN RADIATOR AND CONDENSOR. (07/13/2000-2726) -----</p> <p>CUSTOMER REPORTS: REPAIR POWER SHIFT TRANSMISSION RESULTANT DAMAGE: FAN DRIVE PULLEY SHAFT SEAL IS LEAKING. REPAIRED INCLUDED: INSTALLED NEW SEAL AND IT WAS STILL LEAKING. D&A TRANSMISSION AND CHECK SEAL RING ON OUT PUT SHAFT. FOUND ONE BROKEN. INSTALLED NEW SEAL RINGS AND SEAL. INSTALLED NEW V-BELTS BECAUSE OF OIL. (7/28 - 1232)</p>
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08/17/2000	Service	3020	REPAIR DOORS, CAB	<p>CUSTOMER COMPLAINT: DOOR DAMAGED CAUSE OF FAILURE: LOADING/UNLOADING MACHINE WHILE DOOR WAS OPEN. RESULTANT DAMAGE: DOOR/GLASS FRAME POST TWISTED AND BOWED. REPAIR COMPLETED: REMOVE NECESSARY PANELS AND ELECTRICAL WIRING. REMOVE SIDE GLASS. TWIST POST FRAME BACK TO ORIGINAL POSITION. STRAIGHTEN POST FRAME TO ORIGINAL POSITION. R&I DOOR HINGE USING NECESSARY NUTS, BOLTS, FLAT WASHERS AND SEAL. REINSTALL GLASS. INSTALL DOOR, CHECK FOR PROPER OPERATION. - O.K.. (07/19/2000-2726) -----</p>
08/17/2000	Service	3020	REPAIR BACKUP ALARM	<p>CUSTOMER REPORTS: REMOVE AND INSTALL BACK-UP ALARM. RESULTANT DAMAGE: WAS WORKING BUT COULD NOT HEAR. REPAIRED INCLUDED: REMOVE AND INSTALL BACK-UP ALARM. (7/28 - 1232)</p>
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08/17/2000	Service	3020	TRAVEL TO/FROM ZONE TWO	
02/14/2001	Service	3327	REPAIR TRANSMISSION CLUTCHES	<p>REPAIR COMPLETED: SERVICE LETTER MAY 05, 1999. (02/05/2001-3048 & 3704) -----</p>
02/14/2001	Service	3327	RESEAL DIFFERENTIAL	<p>CUSTOMER COMPLAINT: YOKE/PINION SEAL LEAKING ON DIFFERENTIAL. CAUSE OF FAILURE: BAD SEAL. REPAIR COMPLETED: REPLACED SEAL AND SEAL HOUSING GASKET. CHECKED FOR LEAKS AGAIN, TOPPED OFF DRIVE LINE OIL. (02/04/2001-3704) -----</p>
02/14/2001	Service	3327	REPAIR TRANSMISSION CLUTCHES	<p>REPAIR COMPLETED: SERVICE LETTER MAY 05, 1999. (02/05/2001-3048 & 3704) -----</p>
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05/24/2001	Service	3573	INSPECT MACHINE	
05/24/2001	Service	3573	REPAIR DIFFERENTIAL	<p>INCLUDES R&I DIFFERENTIAL, TRANSMISSION AND OIL COOLER. YY CUSTOMER REPORTS: BAD TRANS./DIFF. OIL SAMPLE. SAMPLE HAS HIGH BRASS. RESULTANT DAMAGE: REMOVED AND DISASSEMBLED DIFF. SPIDER PINION BEARINGS HAVE EXCESSIVE WEAR. SIDE GEAR THRUST WASHERS HAVE GROOVED WEAR. REPAIR INCLUDED: REPLACED SPIDER PINION BEARINGS AND THRUST WASHERS. REPLACED SIDE GEAR THRUST WASHERS. REPLACED ALL MOUNTING SEALS FOR DIFF. TRANS AND TANDEMS. NEW TRANS. OIL AND FILTER. SPIDER PINIONS BEARINGS INSTALLED ARE THE LATEST 174-6822. CLEANED MACHINE AFTER REPAIR. (5/9 - 1975) ***** ***** CUSTOMER REPORTS: SPIDER PINION BEARINGS HAVE EXCESSIVE WEAR. RESULTANT DAMAGE: DUE TO THE SPIDER PINION BEARING FAILURE, A LARGE AMOUNT OF BRASS DEBRIS HAS CONTAMINATED TRANS. AND TRANS. COOLER. REPAIR INCLUDED: REPLACED TRANS. OIL COOLER WITH REMAN. RAN MACHINE WITH CLEAN OUT FILTER, THEN STANDARD FILTER. AFTER THIRD FILTER CHANGE, T</p>

05/24/2001	Service	3573	REPAIR TRANSMISSION	CUSTOMER REPORTS: TRANS. WILL NOT SHIFT FROM 5TH TO 6TH WHEN OIL IS COLD. RESULTANT DAMAGE: CHECK SIXTH SPEED CLUTCH AND FOUND PRESSURE LOW. SPEC 327 PSI, READING WAS 125 PSI. CHECKED MANUAL MODULATION PRESSURE AND FOUND IT LOW. SPEC IS 308 READING WAS 100 PSI. CHECKED INITAL PRESSURE SETTING. ALL INITIAL PRESSURE LOW. FANDRIVE PULLEY LIP SEAL ON TRANS. IS LEAKING. TRANS. OUTPUT SHAFT SEAL IS LEAKING. REPAIR INCLUDED: ADJUSTED MANUEL MOD. CABLE TO ALLOW FULL VALVE SPOOL TRAVEL. MODULATION PRESSURE IS NOW AT SPEC 380 PSI. SIXTH SPEEC CLUTCH PRESSUR PRESSURE IS NOW AT SPEC 327 PSI. ALL INITIAL PRESSURES ARE STILL 8 TO 10 PSI LOW. ADJUSTED ALL INITIAL PRESSURES TO SPEC. REPLACED TRANS OUTPUT AND FAN DRIVE PULLEY LIP SEALS. TEST DROVE MACHINE. ALL SHIFTS ARE NORNMAL. (5/10 - 1975)
05/24/2001	Service	3573	REPAIR OIL LINES	CUSTOMER REPORTS: ENGINE OIL LEAK ON THE LEFT SIDE OF ENGINE. CAUSE OF FAILURE: ENGINE OIL FILTER LINES ARE LEAKING. LINES HAVE BEEN RUBBING TOGETHER. REPAIR INCLUDED: REPLACED BOTH ENGINE OIL FILTER LINES. REPLACED SEALS ON HOSE FITTINGS. CLEANED AFTER REPAIR. (5/10 - 1975)
05/24/2001	Service	3573	REPAIR USE CODE 3030	CUSTOMER REPORTS: TRANSMISSION HAS BAD OIL SAMPLES. REPAIR INCLUDED: INSPECTED TRANSMISSION FILTER AND FOUND ALOT OF FINE BRASS AND SOME METAL. CUSTOMER IS GOING TO BRING MACHINE TO SHOP FOR REPAIRS. (4/30 - 3230)
05/24/2001	Service	3573	INSPECT MACHINE	
05/24/2001	Service	3573	REPAIR DIFFERENTIAL	INCLUDES R&I DIFFERENTIAL, TRANSMISSION AND OIL COOLER. YY CUSTOMER REPORTS: BAD TRANS./DIFF. OIL SAMPLE. SAMPLE HAS HIGH BRASS. RESULTANT DAMAGE: REMOVED AND DISASSEMBLED DIFF. SPIDER PINION BEARINGS HAVE EXCESSIVE WEAR. SIDE GEAR THRUST WASHERS HAVE GROOVED WEAR. REPAIR INCLUDED: REPLACED SPIDER PINION BEARINGS AND THRUST WASHERS. REPLACED SIDE GEAR THRUST WASHERS. REPLACED ALL MOUNTING SEALS FOR DIFF. TRANS AND TANDEMS. NEW TRANS. OIL AND FILTER. SPIDER PINIONS BEARINGS INSTALLED ARE THE LATEST 174-6822. CLEANED MACHINE AFTER REPAIR. (5/9 - 1975) ***** ***** CUSTOMER REPORTS: SPIDER PINION BEARINGS HAVE EXCESSIVE WEAR. RESULTANT DAMAGE: DUE TO THE SPIDER PINION BEARING FAILURE, A LARGE AMOUNT OF BRASS DEBRIS HAS CONTAMINATED TRANS. AND TRANS. COOLER. REPAIR INCLUDED: REPLACED TRANS. OIL COOLER WITH REMAN. RAN MACHINE WITH CLEAN OUT FILTER, THEN STANDARD FILTER. AFTER THIRD FILTER CHANGE, T
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05/24/2001	Service	3573	REMOVE AND INSTALL VEE BELT(S)	PARTS NOT COVERED BY WARRANTY*****
05/24/2001	Service	3573	REPAIR OIL LINES	CUSTOMER REPORTS: ENGINE OIL LEAK ON THE LEFT SIDE OF ENGINE. CAUSE OF FAILURE: ENGINE OIL FILTER LINES ARE LEAKING. LINES HAVE BEEN RUBBING TOGETHER. REPAIR INCLUDED: REPLACED BOTH ENGINE OIL FILTER LINES. REPLACED SEALS ON HOSE FITTINGS. CLEANED AFTER REPAIR. (5/10 - 1975)
05/24/2001	Service	3573	REPAIR USE CODE 3030	CUSTOMER REPORTS: TRANSMISSION HAS BAD OIL SAMPLES. REPAIR INCLUDED: INSPECTED TRANSMISSION FILTER AND FOUND ALOT OF FINE BRASS AND SOME METAL. CUSTOMER IS GOING TO BRING MACHINE TO SHOP FOR REPAIRS. (4/30 - 3230)
05/24/2001	Service	3573	TRAVEL TO/FROM ZONE TWO	
01/25/2002	Service	4147	INSPECT MACHINE	
01/25/2002	Service	4147	REPAIR USE CODE 3002	CUSTOMERS COMPLAINT: JUMPS OUT OF GEAR. REPAIR INCLUDED: TEST ALL PRESSURE IN TRANS- MISSION INT. PRESSURE WERE LOW. SET THOSE TO SPEF. TEST DROVE AND ALL CHECKED OUT. (12/28 - 3729)
01/25/2002	Service	4147	REPAIR CIRCLE DRIVE SLIP CLUTCH	REPAIR INCLUDED: ADJUST CIRCLE DRIVE. (12/31 - 3729)
01/25/2002	Service	4147	INSPECT MACHINE	
01/25/2002	Service	4147	REPAIR USE CODE 3002	CUSTOMERS COMPLAINT: JUMPS OUT OF GEAR. REPAIR INCLUDED: TEST ALL PRESSURE IN TRANS- MISSION INT. PRESSURE WERE LOW. SET THOSE TO SPEF. TEST DROVE AND ALL CHECKED OUT. (12/28 - 3729)
01/25/2002	Service	4147	REPAIR CIRCLE DRIVE SLIP CLUTCH	REPAIR INCLUDED: ADJUST CIRCLE DRIVE. (12/31 - 3729)
01/25/2002	Service	4147	ADJUST CIRCLE ASSEMBLY	CUSTOMERS COMPLAINT: CIRCLE ROTATES HARD. CAUSE OF FAILURE: FOUND THAT THE CIRCLE WAS OUT OF ADJUSTMENT. REPAIRS MADE: ADJUSTED CIRCLE SHOES AND TESTED AFTER REPAIR AND FOUND OPERATION TO BE CORRECT. 3729

06/27/2002	Service	4407	REPAIR ARTICULATION PIVOT PIN	INSTALL MISSING ARTIC PIN BOLTS. INSTALLED ARTIC PIN BOLTS PIN HAD MOVED HAD A HARD TIME TURNING PIN TO LINE UP BOLT HOLES.
06/27/2002	Service	4407	ADJUST CIRCLE DRAWBAR SOCKET	ADJUST DRAWBAR BALL SOCKET VERY LOOSE INSTALL LONG BOLTS. ADJUSTED DRAWBAR SOCKET AND INSTALLED LONGER BOLTS
06/27/2002	Service	4407	REPAIR DECELERATOR/ACCELERATOR	REPAIR DECELERATOR NOT RETURN TO HI IDLE. WARRANTY SAVE ALL PARTS/SUBMISSION FORM REQUIRED DECELERATOR WAS NOT RETURNING TO HIGH IDLE. FOUND CABLE TO BE STICKING. REPLACED CABLE & ADJUSTED. *****
06/27/2002	Service	4407	REPAIR STEERING ACCUMULATOR	CK STEER ACCUM PRESS STEERING JERKY. WARRANTY SAVE ALL PARTS/SUBMISSION FORM REQUIRED STEERING WAS JERKY. FOUND VERY LOW CHARGE IN STEERING ACCUM. REPLACED STEERING ACCU. *****
06/27/2002	Service	4407	REPAIR SWIVEL GUARD	STRAIGHTEN SWIVEL GUARD. STRAIGHTEN SWIVEL GUARD I HAD TO REMOVE GUARD BUT PIN IN SWIVEL WAS SEIZED HOLDING BRACKET SO I CUT BOTH ENDS OF PIN TO REMOVE BRACKET THEN SOAKED PIN WITH PEN OIL BUT PIN WOULDN'T MOVE. I HAD TO REMOVE SWIVEL AND HAD TO DRILL OUT PIN ON DRILL PRESS AND WAS ABLE TO GET PIN OUT AND REPLACE.
06/27/2002	Service	4407	REPAIR HYDRAULIC HOSES/LINES	REPLACE 2-BADLY WORN CIRCLE SWIVEL HOSES. REPLACED TWO WORN HOSES.
06/27/2002	Service	4407	REPAIR RIPPER	TURN SHANKS DOWN. TURNED SHANKS DOWN.
06/27/2002	Service	4407	REPAIR NON-ROPS CAB	CLEAN CAB. CLEANED CAB.
06/27/2002	Service	4407	INSPECT MACHINE	FINAL INSPECT
06/27/2002	Service	4407	TOUCH-UP MACHINE	SPOT PAINT MACHINE.
06/27/2002	Service	4407	PERFORM SERVICE ON ANNUAL MAINTENANCE	SERVICE MACHINE 2000 HR SERVICE *CHANGE ENGINE OIL AND FILTER *CHANGE TRANSMISSION OIL AND FILTER *CLEAN AND INSPECT MAGNETIC SCREEN *CHANGE HYDRAULIC OIL AND FILTERS *CHANGE OIL IN LEFT AND RIGHT TANDEMS *OBTAIN SCHEDULED OIL SAMPLES FROM THE ENGINE, TRANSMISSION, HYDRAULICS, LEFT AND RIGHT TANDEMS. -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
06/27/2002	Service	4407	TUNE UP (MAJOR) W/346JAKE ANNUAL MAINTENANCE	ADD PARTS ON SEG SEVENTEEN USED QUICK DISCONNECT ON A/C TO GET BETTER ACCESS TO REPLACE CABLE BUT QUICK COLLECT STUCK AND LOST FREON AND REPLACED CONNECTOR AND DRYER AND RECHARGED ALL SO BATTERY WAS LOW. I CHARGED AND LOAD TESTED AND FOUND BAD AND REPLACED AND TOOK MACHINE TO WASH BAY TO WASH OFF OIL FROM SERVICE AND DID SERVICE REPORTS.
09/15/2002	Service	0	LOAD/UNLOAD MACHINE	T/S AND REPAIR FOR MACHINE INTERMITTENTLY POPPING INTO NEUTRAL
10/04/2002	Service	4443	TROUBLESHOOT TRANSMISSION & DRIVE LINE	09/27/02 3366 COMPLAINT: TRANSMISSION JUMPS OUT OF GEAR SOMETIMES. MORE OFTEN WHEN THE MACHINE IS ARTICULATED. REPAIR: CHECKED FOR CODES. MACHINE HAD LOGGED 646-6 103 TIMES IN THE LAST 39 HOURS. ALSO HAD LOGGED 177-4 FOUR TIMES IN THE LAST 2 HOURS. 646-6 IS TRANSMISSION SOLENOID #6 SHORT TO GROUND AND 177-4 IS TRANSMISSION OIL TEMP SHORT TO GROUND. NO ACTIVE CODES BUT IT DID SET THE 646-6 CODE 1 TIME WHILE MOVING THE TRANSMISSION HARNESS AROUND IN THE CENTER OF THE MACHINE. CHECKED #6 TRANSMISSION SOLENOID. RESISTANCE WAS IN SPEC. TRANSMISSION OIL TEMP SENDER WAS GETTING POWER, HAD A GOOD GROUND AND SIGNAL WAS CORRECT. REMOVED THE CLAMPS FROM THE TRANSMISSION HARNESS IN THE ARTICULATION POINT. NO APPARENT DAMAGE TO THE HARNESS. THE PART NUMBER OF THE HARNESS IS 143-3433. GRAND JUNCTION TO FINISH JOB ON WORK ORDER 2M43077
10/04/2002	Service	4468	TROUBLESHOOT TRANSMISSION	TECHNICIAN'S REPORT: CUSTOMER REPORTED THE MACHINE WOULD STOP. THE ECM WOULD KICK THE TRANSMISSION OUT OF GEAR. FOUND THE HARNESS HAD BROKEN WIRES INSIDE AND WOULD SOMETIMES BREAK CONTACT. REPLACED THE HARNESS. TESTED MACHINE FOR PROPER OPERATION.

10/04/2002	Service	4468	YARD DUTIES VEH# KRS130 S/N 66838	
10/09/2002	Service	4505	TROUBLESHOOT TRANSMISSION	TECHNICIAN'S REPORT: CUSTOMER REPORTED INTERMITTENT TRANSMISSION NEUTRALIZING. HOOKED UP ET AND FOUND #6 SOLENOID HAD SHORTED TO GROUND 108 TIMES. FURTHER TROUBLESHOOTING REVEALED THE WIRE TO THE #6 SOLENOID COIL WAS RUBBING COVER IN BACK. TAPED UP WITH ELECTRICAL TAPE AND CLEARED CODES.
10/09/2002	Service	4505	YARD DUTIES VEH# KRS130 S/N 66838	
06/18/2003	Service	1308	TROUBLESHOOT CIRCLE DRAWBAR SOCKET	6/13/03 3605 T/S AND FOUND DRAW BAR BALL RETAINING BOLTS WERE BROKEN. ORDERED PARTS. 6/16/03 2402 DRAW BAR BALL RETAINING BOLTS BROKEN. REMOVED DAMAGED SPROCKET AND BALL. WELD SHOP (RUSSELL) CUT OFF OLD STUB AND WELDED ON NEW STUD. INSTALLED NEW BALL AND SOCKET WITH NEW HARDWARE. ADJUSTED AND LUBED. 6/16/03 1726 BALL STUD ON DRAWBAR IS WORN DUE TO BOLTS COMING LOOSE ON BALL. HELPED UNBOLT DRAWBAR BALL STUD. CUT OLD BALL STUD OFF AND WELDED NEW IN PLACE. PAINTED NEW PLATE. BOLTED DRAWBAR BALL STUD BACK UP.
06/18/2003	Service	1308	TRAVEL TO/FROM ZONE TWO	
10/31/2003	Service	6317	TROUBLESHOOT TRANSMISSION & DRIVE LINE	***** SERVICE REPORT ***** . OPERATIONAL PROBLEM WAS MACHINE WOULD NOT SHIFT ABOVE 2ND GEAR. FOUND SHORT TO GROUND FOR #7 SOLENOID. ISOLATED THE FAULT TO THE ECM / INTERNAL SHORT IF A LOAD WAS ON THE CIRCUIT. REPAIRED BY REPLACING THE THE ECM. FLASHED THE LATEST SOFTWARE
10/31/2003	Service	6317	YARD DUTIES VEH# KRS130 S/N 66838	
11/16/2003	Service	0	REPAIR CIRCLE REVERSE GEAR BOX	. ***** SERVICE REPORT ***** . OPERATIONAL PROBLEM WAS THE WORM AND RING GEAR FAILED. POSSIBLY FROM RUNNING TO TIGHT. REPAIRED BY REPLACING THE DAMAGED COMPONENTS. RESHIMMED THE CIRCLE.
11/16/2003	Service	0	YARD DUTIES ZONE TWO	
04/08/2005	Service	8298	TRAVEL TO/FROM FIELD SERVICE	PERFORM S/L PI30775 DATED 03/17/05
04/08/2005	Service	8298	REPAIR FOR WARRANTY: WIRING HARNESS	PERFORM S/L PI30775 DATED 03/17/05 YY COMPLAINT: THE REMOTE OIL FILTER LINES AND THE POSITIVE BATTERY CABLE MAY RUB TOGETHER. CAUSE: RUBBING OF THE HOSES AND BATTERY CABLE MAY WEAR THROUGH THE OUTER INSULATION AND RESULT IN RAPID LOSS OF ENGINE OIL, PREMATURE ENGINE FAILURE AND POSSIBLE ELECTRICAL SHORTS WITHIN THE SYSTEM. CORRECTION: OIL FILTER HOSES AND POSITIVE BATTERY CABLE WERE INSPECTED FOR PREMATURE RUBBING WEAR. THE HOSES OR THE CABLE DID NOT NEED TO BE REPLACED. REWORKED HOSES AND CABLE BY INSTALLING HOSE CLIPS TO SECURE THE HOSES AND CABLE FROM FUTURE RUBBING. PERFORMED REWORK AS PER PI30775 DATED MARCH 17, 2005.
04/08/2005	Service	8298	TRAVEL TO/FROM FIELD SERVICE	
04/08/2005	Service	8298	REPAIR FOR WARRANTY: WIRING HARNESS	
06/23/2005	Service	8952	INSTALL PRODUCT LINK SYSTEM 321	06/15/05 2587 CUSTOMER COMPLAINT: INSTALL P-L REPAIR COMMENTS: INSTALLED P-L-321 ON BRACKET PURCHASED AND INSTALLED IN CAB ON ROPS ON LEFT SIDE HOOKED ALL WIRING UP AND PUT CORRECT INFO INTO ECM CHECKED WITH MIKE AND HE WAS ABLE TO FIND MACHINE ECM#05955B332LQ.#DQ0000020564.
07/11/2005	Parts	0		
07/13/2005	Parts	0		
08/05/2005	Parts	0		
08/08/2005	Parts	0		
08/10/2005	Parts	0		
09/06/2005	Parts	0		
10/10/2005	Parts	0		
10/22/2005	Parts	0		
10/22/2005	Parts	0		
11/21/2005	Parts	0		
03/16/2006	Service	0	RECONDITION/OVERHAUL PISTON PUMP	TECHNICIAN'S REPORT: DISASSEMBLED, CLEANED, AND INSPECTED PUMP FOR REPAIR. LIGHT WEAR ON SHAFT AT SEAL AREA AND BEARINGS ARE WORN. REPLACED BEARINGS AND ALL SEALS. LAPPED BARREL, PISTONS, AND PORT PLATE. POLISHED SHAFT AT SEAL AREA AND TESTED PUMP. RECONDITIONED VALVE, SEALS WORN. REPLACED ALL SEALS, AND CHARGED ACCUMULATOR. ***** AN OIL SAMPLE HAS BEEN ATTACHED TO YOUR REBUILT HYDRAULIC COMPONENT. THIS IS TO HELP MONITOR OIL CLEANLINESS SO YOU RECEIVE THE INTENDED LIFE OUT OF YOUR COMPONENT, AND ASSURE YOUR WARRANTY COVERAGE. THIS SAMPLE NEEDS TO BE TAKEN 8 HOURS AFTER YOUR COMPONENT IS INSTALLED AND SENT TO WAGNER EQUIPMENT CO., OIL LAB FOR PROCESSING. THANK YOU,

03/25/2006	Service	0	RECONDITION/OVERHAUL ENGINE	DISASSEMBLED ENGINE: NO MAJOR FAILURE FOUND. LINERS WORN TO 4.753", CAMSHAFT ERODING ON LOADED SIDES OF LOBES, LIFTERS BEGINNING TO DISH. OIL PUMP IDLER GEAR TEETH PITTED, DAMPER SLIPPED AND OT OF ROUND .080". TRANSMISSION OIL COOLER END SHEETS SWELLED AND FLAKING. 7C9997 FRONT HUB DAMAGED FROM REMOVAL, HUB WAS LOCKED ON CRANKSHAFT WITH BEARING MOUNT. CRANKSHAFT, AND GEAR TRAIN MAKE REUSE. DISASSEMBLED CYLINDER HEAD: MAGNAFLUXED CASTING NO CRACKS FOUND, DECK SURFACE IS STREIGHT. EXHAUST SURFACE ERODED AND NEEDS MILLED. NEED TO REMOVE 3 BROKEN STUDS. EXHAUST VALVES AND GUIDES WORN BEYOND SPEC. ALL SPRINGS WEAR STEPPED. ROCKER ARM ASSEMBLY REUSABLE.
03/25/2006	Service	0	WINTER INSPECT ENGINE	
03/25/2006	Service	0	RECONDITION/OVERHAUL TRANSMISSION & DRIVE LINE	REPAIR SPECIFICATION INCLUDES: -CLEAN TRANSMISSION - DISASSEMBLE AND ASSEMBLE TRANSMISSION, TRANSFER GEARS (IF INTEGRAL PART OF UNIT), AND TORQUE CONVERTER (IF INTEGRAL PART OF UNIT) -REPLACE ALL BEARINGS, SEALS, GASKETS AND LOCKS - REPLACE FRICTION DISCS AND CLUTCH PLATES AS REQUIRED - REPLACE VALVE SPRINGS AS REQUIRED -REPLACE 9M6193-SPRING ASSEMBLIES (TRACTOR SCRAPERS ONLY) -TRANSMISSION PUMP REBEARING/RESEAL (WHEN PUMP IS MOUNTED ON UNIT) -TEST AND ADJUST (WHEN APPLICABLE) -FURNISH CATERPILLAR HIGH EFFICIENCY CLEAN OUT FILTER AND SCHEDULED OIL SAMPLING KIT - PAINT TRANSMISSION/TORQUE CONVERTER AVAILABLE AS NEEDED AT ADDITIONAL COST: -OTHER PARTS NOT INCLUDED ABOVE AS WELL AS PARTS THAT ARE NOT CONSIDERED TO BE A NORMAL WEAR ITEM - REMOVAL AND INSTALLATION OF TRANSMISSION -OIL SYSTEM FLUSH IF REQUIRED -TRANSMISSION PUMP REBUILD (WHEN NOT PART OF THE TRANSMISSION UNIT) -OIL COOLER CLEAN OR REPLACEMENT - TRANSFER GEARS WHEN NOT PART OF TRANSMISSION UNIT - REPLACEMENT OF STATOR, IMPELLER AND/OR
03/25/2006	Service	0	WINTER INSPECT TRANSMISSION & DRIVE LINE	ADD PARTS INCLUDED ALL DAMAGED PLATES, PISTONS, UPDATE SOLINIODS, SENSORS, AND VALVE BODY.
03/25/2006	Service	0	REBEARING AND RESEAL DIFFERENTIAL	DISASSEMBLED DIFF: NO FAILURE FOUND, FOUND SLIGHT WEAR ON DIFF CASE INNER SPLINES AND SOME TEETH OF FRICTION DISCS. MEASURED DISC AND PLATE THICKNESS, REUSABLE. MAGNAFLUXED BEVEL AND PINION GEARS, BOTH GOOD.
03/25/2006	Service	0	RECONDITION/OVERHAUL ENGINE	DISASSEMBLED ENGINE: NO MAJOR FAILURE FOUND. LINERS WORN TO 4.753", CAMSHAFT ERODING ON LOADED SIDES OF LOBES, LIFTERS BEGINNING TO DISH. OIL PUMP IDLER GEAR TEETH PITTED, DAMPER SLIPPED AND OT OF ROUND .080". TRANSMISSION OIL COOLER END SHEETS SWELLED AND FLAKING. 7C9997 FRONT HUB DAMAGED FROM REMOVAL, HUB WAS LOCKED ON CRANKSHAFT WITH BEARING MOUNT. CRANKSHAFT, AND GEAR TRAIN MAKE REUSE. DISASSEMBLED CYLINDER HEAD: MAGNAFLUXED CASTING NO CRACKS FOUND, DECK SURFACE IS STREIGHT. EXHAUST SURFACE ERODED AND NEEDS MILLED. NEED TO REMOVE 3 BROKEN STUDS. EXHAUST VALVES AND GUIDES WORN BEYOND SPEC. ALL SPRINGS WEAR STEPPED. ROCKER ARM ASSEMBLY REUSABLE.
03/25/2006	Service	0	WINTER INSPECT ENGINE	
03/25/2006	Service	0	TABI-MONTHLY INSPECTION ENGINE	
03/25/2006	Service	0	SALVAGE REPAIR CYLINDER BLOCK	SALVAGE CYLINDER BLOCK: SURFACE DECK.
03/25/2006	Service	0	RECONDITION/OVERHAUL TRANSMISSION & DRIVE LINE	REPAIR SPECIFICATION INCLUDES: -CLEAN TRANSMISSION - DISASSEMBLE AND ASSEMBLE TRANSMISSION, TRANSFER GEARS (IF INTEGRAL PART OF UNIT), AND TORQUE CONVERTER (IF INTEGRAL PART OF UNIT) -REPLACE ALL BEARINGS, SEALS, GASKETS AND LOCKS - REPLACE FRICTION DISCS AND CLUTCH PLATES AS REQUIRED - REPLACE VALVE SPRINGS AS REQUIRED -REPLACE 9M6193-SPRING ASSEMBLIES (TRACTOR SCRAPERS ONLY) -TRANSMISSION PUMP REBEARING/RESEAL (WHEN PUMP IS MOUNTED ON UNIT) -TEST AND ADJUST (WHEN APPLICABLE) -FURNISH CATERPILLAR HIGH EFFICIENCY CLEAN OUT FILTER AND SCHEDULED OIL SAMPLING KIT - PAINT TRANSMISSION/TORQUE CONVERTER AVAILABLE AS NEEDED AT ADDITIONAL COST: -OTHER PARTS NOT INCLUDED ABOVE AS WELL AS PARTS THAT ARE NOT CONSIDERED TO BE A NORMAL WEAR ITEM - REMOVAL AND INSTALLATION OF TRANSMISSION -OIL SYSTEM FLUSH IF REQUIRED -TRANSMISSION PUMP REBUILD (WHEN NOT PART OF THE TRANSMISSION UNIT) -OIL COOLER CLEAN OR REPLACEMENT - TRANSFER GEARS WHEN NOT PART OF TRANSMISSION UNIT - REPLACEMENT OF STATOR, IMPELLER AND/OR
03/25/2006	Service	0	WINTER INSPECT TRANSMISSION & DRIVE LINE	ADD PARTS INCLUDED ALL DAMAGED PLATES, PISTONS, UPDATE SOLINIODS, SENSORS, AND VALVE BODY.
03/25/2006	Service	0	TABI-MONTHLY INSPECTION TRANSMISSION & DRIVE LINE	SALVAGE PARTS: REGROOVE PULLEY. TECHNICIAN'S REPORT: REGROOVED PULLEY, THREE GROOVES.
03/25/2006	Service	0	REBEARING AND RESEAL DIFFERENTIAL	DISASSEMBLED DIFF: NO FAILURE FOUND, FOUND SLIGHT WEAR ON DIFF CASE INNER SPLINES AND SOME TEETH OF FRICTION DISCS. MEASURED DISC AND PLATE THICKNESS, REUSABLE. MAGNAFLUXED BEVEL AND PINION GEARS, BOTH GOOD.
03/25/2006	Service	0	SEPERATE & CONNECT TRANSMISSION & DRIVE LINE	

03/29/2006	Service	0	RECONDITION/OVERHAUL ARTICULATION CYLINDER	REPAIR SPECIFICATIONS INCLUDE: -DISASSEMBLE AND ASSEMBLE COMPLETE CYLINDER -CLEAN AND INSPECT -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 - BUILD AND BORE ROD EYE OR BARREL EYE -INSTALL NEW MOUNTINGS, BEARINGS AND SEALS -RESEAL QUICK DROP VALVES IF APPLICABLE -REROD -RETUBE -HONE OVERSIZE ***** LEAKS AT ROD SEALS. ROD IS SCRATCHED. ROD, SEALS, BARREL EYE BEARINGS. DISASSEMBLED AND INSPECTED. ASSEMBLED AND TESTED. PRESSED BEARINGS IN.
03/29/2006	Service	0	RECONDITION/OVERHAUL ARTICULATION CYLINDER	REPAIR SPECIFICATIONS INCLUDE: -DISASSEMBLE AND ASSEMBLE COMPLETE CYLINDER -CLEAN AND INSPECT -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 - BUILD AND BORE ROD EYE OR BARREL EYE -INSTALL NEW MOUNTINGS, BEARINGS AND SEALS -RESEAL QUICK DROP VALVES IF APPLICABLE -REROD -RETUBE -HONE OVERSIZE ***** SEALS WORN. DISASSEMBLED AND INSPECTED. HONED BARREL, POLISHED ROD. ASSEMBLED AND TESTED.
04/04/2006	Service	0	TROUBLESHOOT AND REPAIR BLADE SIDESHIFT CYLINDER	TECHNICIAN'S REPORT: DISASSEMBLED, CLEANED, AND INSPECTED FOR REPAIR. INSPECTION REVEALED THE BARREL TUBE AND EYE EXTENSIONS ARE BENT, ROD IS BENT, HEAD INNER DIAMETER IS OUT OF ROUND. ADVISED CUSTOMER OF OUR FINDINGS. REPAIR NOT ECONOMICAL. FURNISHED CUSTOMER WITH A NEW CYLINDER ASSEMBLY.
06/30/2007	Service	0	REPAIR AIR CONDITIONER	6/14/07 2881 A/C BLOWS WARM CAUSE OF FAILURE: DUMMY PLUG MISSING AND FILLED WITH DIRT CAUSING A PARTIALLY OPEN CIRCUIT. REPAIR COMMENTS: CHECKED MACHINE AND FOUND THAT COMPRESSOR WAS NOT ENGAGING. CHECKED PRESSURES AND FOUND THEM TO ENOUGH TO CAUSE SWITCHES TO CLOSE. CHECKED FOR POWER AT CLUTCH AND FOUND ONLY 3 VOLTS PRESENT. TRACED WIRING AND CHECKED HARNESES. FOUND THAT A JUMPER PLUG HAD BEEN REMOVED FROM BEHIND THE CAB AND FILLED WITH DIRT. THE DIRT WAS SHORTING OUT THE TERMINALS ALLOWING THE THREE VOLTS THRU. REPAIRED WIRING AND FOUND A/C TO NOW BE WORKING. CHECKED A.C AND FOUND IT TO BE CORRECT. AIR DUCT TEMP WAS 42 DEGREES.
06/30/2007	Service	0	TRAVEL TO/FROM WORK AREA	REPAIR COMMENTS: TRAVEL TO AND FROM MACHINE.
08/14/2007	Service	13352	REPAIR IMPLEMENTS	SHIM CIRCLE AND REPAIR BLADE 13.5 HOURS AT \$89.50 YY 3767 INSTRUCTED PER AMES TO SHIM BLADE, CIRCLE, AND DRAFT BALL DELIVER MACHINE TO WASH RACK FOR CLEANING. REPAIR COMMENTS: REPLACE ALL BRASS IN BLADE AND RESHIM CIRCLE AND DRAFT BALL PER SERVICE MANUAL. ALL REPAIRS WERE MADE IN AMES YARD. MACHINE WAS DRIVEN AND TESTED AND DELIVERED TO WASH RACK FOR CLEANING. CUSTOMER WOULD LIKE NEW BATTERIES INSTALLED AS THERE IS A POSSIBLE LOW BATTERY ISSUE. USE CUSTOMER BATTERY TESTER AND FOUND BATTERIES TO BE LOW AND FAIL LOAD TEST INSTALL NEW BATTERIES AND RELEASE
04/02/2010	Service	16347	REPAIR TRANSMISSION & DRIVE LINE	3/26/10 3915/3969 WENT OUT TO MACHINE AND T/S TRANSMISSION INCH PETAL FOR NOT RETURNING BACK INTO NEUTRAL STAT. FOUND CABLE TO BE STICKING. REPLACED CABLE WITH A NEW ONE. ADJUSTED CABLE TO SPEC. RAN MACHINE TO MAKE SURE THE INCHING PETAL WAS WORKING CORRECTLY. FOUND NO PROBLEMS. I ALSO REPAIRED TWO WORKING LIGHT ON BACK OF MACHINE FOR NOT WORKING. _____ TOTAL LABOR HOURS: 7 HRS
04/02/2010	Service	16347	TRAVEL TO/FROM WORK AREA	_____ TOTAL TRAVEL HOURS: 3.5 HRS
04/09/2010	Service	17895	REPAIR MACHINE	4/5/10 3767 TROUBLE SHOOT FOR RIGHT VALVE BANK STICKING AND SLOW FUNCTION FOUND VALVES SPRINGS AND PISTONS STICKING IN VALVE ORDERED NEW PARTS AND DISASSEMBLE VALVE FROM TRACTOR AND DISASSEMBLE EACH SPOOL ASSY AND CLEAN REBUILD. INSTALL ALL NEW SPOOLS AND PISTONS. REASSEMBLE VALVE INSTALL BACK IN TRACTOR TEST FOR OPERATION FOUND ALL FUNCTIONS NORMAL AND WORKING CORRECTLY. _____ TOTAL LABOR HOURS: 15 HRS CUSTOMER COMPLAINT: TROUBLE SHOOT FOR RIGHT VALVE BANK STICKING AND SLOW FUNCTION FOUND VALVES SPRINGS AND PISTONS STICKING IN VALVE ORDERED NEW PARTS AND DISASSEMBLE VALVE FROM TRACTOR AND DISASSEMBLE EACH SPOOL ASSY AND CLEAN REBUILD. INSTALL ALL NEW SPOOLS AND PISTONS. REASSEMBLE VALVE INSTALL BACK IN TRACTOR TEST FOR OPERATION FOUND ALL FUNCTIONS NORMAL AND WORKING CORRECTLY.
04/09/2010	Service	17895	TRAVEL TO/FROM WORK AREA	_____ TOTAL TRAVEL HOURS: 1.5 HRS

06/25/2011	Service	18521	CHECK ENGINE	CUSTOMER COMPLAINT: COOLANT TEMP GAUGE NOT WORKING CAUSE OF FAILURE: 115-9457 BATTERY CABLE RUBBED THROUGH ON COOLANT TUBE RESULTANT DAMAGE: DAMAGED COOLANT TEMP SENSOR AND SWITCH'S, SHORTED OUT ELECTRIC SYSTEM CAUSING ASSORTMENT OF MISC PROBLEMS REPAIR PROCESS COMMENTS: WAS INFORMED OF PROBLEM'S THE MACHINE WAS HAVING, I ORDERED PARTS THAT I THOUGHT I MIGHT NEED TO REPAIR THE MACHINE BEFORE I LEFT THE SHOP. WEN TO THE MACHINE LOCATION AND WAITED FOR THE CUSTOMER'S MECHANIC TO CALL AND INFORM ME OF WHERE THE MACHINE WAS AT AND A SUITABLE PLACE TO WORK ON THE MACHINE. FINALLY CONTACTED THE OPERATOR AND WAS INFORMED IN MORE DEPTH OF THE ISSUES THE MACHINE WAS HAVING. INSPECTED THE MACHINE AND FOUND THE 115-9457 BATTERY CABLE HAD RUBBED THOUGH AND SHORTED OUT ON THE ENGINE COOLANT TUBE CAUSING AN ASSORTMENT OF ELECTRICAL PROBLEMS AND FINALLY SHORTING OUT THE COOLANT TEMP SENSOR AND COOLANT SWITCH'S FOR THE EMS PANEL. REMOVED AND REPLACED SENSOR AND SWITCH'S, STARTED MACHINE AND CHEC
06/25/2011	Service	18521	CHECK DIFF LOCK CONTROL VALVE	
10/24/2012	Service	0	REPAIR STEERING AXLE/LINKAGE	REPAIR PROCESS COMMENTS: BUILT UP 4 END BORES WITH WELD & 2 INNER WORN FACES. SET UP BARS & BEARINGS, LEVELED & SQUARED. CUT 4 BORES TO 2.251 AT 2 1/4 INCHES LONG EACH. FACED OFF 2 INNER BORES. TORE DOWN & CLEANED REPAIRED AREA'S. BUILT UP UPPER PIN BORE WITH WELD. SET UP BAR & BEARINGS, CUT 2 BORES TO 1.751 AT 7/8 INCH LONG EACH. TORE DOWN SET UP & CLEANED REPAIRED AREA'S. CUT OFF 2 CYLINDER MOUNTING BRACKETS & CLEANED CUT AREA'S. FIT NEW BRACKETS IN PLACE & WELDED.
10/24/2012	Service	0	RECONDITION/OVERHAUL STEERING AXLE/LINKAGE	CUSTOMER COMPLAINT: RECONDITION STEERING AXLE. CAUSE OF FAILURE: SEVERAL PIN BORES ARE WORN OUT OF ROUND CAUSING LOOSE FEELING IN STEERING. RECOMMEND REPLACEMENT OF ALL BEARINGS, BUSHINGS PINS, AND TIE ROD ENDS AS WELL AS REBUILD OF STEERING AND WHEEL LEAN CYLINDER. TIE ROD IS ALSO BENT. RESULTANT DAMAGE: LEAN BAR BEARING BORES ARE OUT OF ROUND. LEAN BAR PIN BORES IN KNUCKLES ARE WORN OUT OF ROUND. ALL 4 STEERING CYLINDER MOUNTING BORES ARE OUT OF ROUND. LEAN CYLINDER MOUNTING BORES ARE OUT OF ROUND. ALL MOUNTING PINS ARE WORN OUT OF ROUND. TIE ROD IS BENT. REPAIR PROCESS COMMENTS: DISASSEMBLED AND CLEANED ALL PARTS OF FRONT AXLE ASSEMBLY. REMOVED ALL BEARINGS AND MEASURED ALL PIN AND BEARING BORES. QUOTED PARTS NEEDED TO RECONDITION STEERING AXLE.
10/24/2012	Service	0	WINTER INSPECT STEERING AXLE/LINKAGE	
10/24/2012	Service	0	TABI-MONTHLY INSPECTION STEERING AXLE/LINKAGE	REPAIR PROCESS COMMENTS: BORE SPINDLES AND BAR REPAIR PROCESS COMMENTS: BORE SPINDLE HOUSING TO 1.746"
10/24/2012	Service	0	RECONDITION/OVERHAUL WHEEL LEAN CYLINDER	**REPAIR SPECIFICATION INCLUDES** -DISASSEMBLE AND ASSEMBLE COMPLETE CYLINDER -CLEAN AND INSPECT -INSTALL NEW MOUNTINGS, BEARINGS, AND SEALS -INSPECT BEARING BORES -CHECK ROD FOR STRAIGHTNESS AND ROUNDNESS -INSPECT TRUNNION MOUNTS FOR ROUNDNESS AND CRACKS IF APPLICABLE -CHECK THREADS -HONE BARREL 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** -MACHINE WEAR BAND -RECHROME OR POLISH ROD -REPLACEMENT OF CYLINDER ROD, PISTON, HEAD, NUT OR BARREL -BUILD AND BORE ROD OR BARREL EYE -RESEAL QUICK DROP VALVES -REROD -OVERSIZE HONE -OTHER SALVAGE AS REQUIRED -CHARGES FOR UNACCEPTABLE CORES CAUSE OF FAILURE: SEALS WORN FROM TIME AND USE. CYLINDER EYE NEEDS BUILD AND BORE. REPAIR PROCESS COMMENTS: 10/13/12-4290-BORE BARREL EYE TO 2.250" DISASSEMBLED AND INSPECTED PARTS. FLEXED HONED BARREL. CLEANED AND QUOTED PARTS. ASSEMBLED WITH NEW PARTS TORQUED PISTON NUT TO SPEC, 4416. ASSEM
10/24/2012	Service	0	WINTER INSPECT WHEEL LEAN CYLINDER	TECHNICIAN'S REPORT: BUILT UP AND BORE BARREL EYE.
10/24/2012	Service	0	RECONDITION/OVERHAUL STEERING CYLINDER	CUSTOMER COMPLAINT: LEAKS OIL CAUSE OF FAILURE: TIME ON CYLINDER RESULTANT DAMAGE: BARREL EYE BEARING, SCCKET, SEALS. REPAIR PROCESS COMMENTS: DISASSEMBLED AND INSPECTED, FLEX HONED BARREL AND HEAD, POLISHED ROD. ASSEMBLED WITH NEW SEALS AND HARD PARTS. TESTED WORKS GOOD.
10/24/2012	Service	0	WINTER INSPECT STEERING CYLINDER	TECHNICIAN'S REPORT: REPLACED SOCKE
10/24/2012	Service	0	RECONDITION/OVERHAUL STEERING CYLINDER	CAUSE OF FAILURE: TIME ON CYLINDER RESULTANT DAMAGE: BEARING AND SOCKET, SEALS. REPAIR PROCESS COMMENTS: DISASSEMBLED AND INSPECTED, HONED BARREL, POLISHED ROD, FLEX HONED HEAD, CLEANED ALL PARTS. ASSEMBLED AND TESTED. IN STALED BEARING AND SOCKET.
10/24/2012	Service	0	WINTER INSPECT STEERING CYLINDER	

10/24/2012	Service	0	RECONDITION/OVERHAUL TIP CYLINDER	<p>**REPAIR SPECIFICATION INCLUDES** -DISASSEMBLE AND ASSEMBLE COMPLETE CYLINDER -CLEAN AND INSPECT -INSTALL NEW MOUNTINGS, BEARINGS, AND SEALS -INSPECT BEARING BORES -CHECK ROD FOR STRAIGHTNESS AND ROUNDNESS -INSPECT TRUNNION MOUNTS FOR ROUNDNESS AND CRACKS IF APPLICABLE -CHECK THREADS -HONE BARREL 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** -MACHINE WEARBAND -RECHROME OR POLISH ROD -REPLACEMENT OF CYLINDER ROD, PISTON, HEAD, NUT OR BARREL -BUILD AND BORE ROD OR BARREL EYE -RESEAL QUICK DROP VALVES -REROD -OVERSIZE HONE -OTHER SALVAGE AS REQUIRED -CHARGES FOR UNACCEPTABLE CORES CAUSE OF FAILURE: LIGHT SCORES IN ROD CHROME. REPAIR PROCESS COMMENTS: DISASSEMBLED AND INSPECTED. CLEANED, QUOTED AND ORDERED PARTS. FLEX HONED BARREL. BUFFED AND POLISHED ROD. ASSEMBLED CYL WITH NEW SEALS AND BEARINGS. TORQUED HEAD AND PISTON TO SPEC. TESTED AT 3000 PSI. NO LEAKS, NO CAUSE OF FAILURE: DEEP SCORES IN ROD CHROME. REPAIR PROCESS COMMENTS: DISASSEMBLED AND INSPECTED. CLEANED, QUOTED AND ORDERED PARTS. FLEX HONED BARREL. ASSEMBLED CYL WITH NEW SEALS AND REMAN ROD. TORQUED HEAD AND PISTON TO SPEC. TESTED AT 3000 PSI. NO LEAKS, NO DRIFTING.</p>
10/24/2012	Service	0	RECONDITION/OVERHAUL BLADE SIDESHIFT CYLINDER	<p>TECHNICIAN'S REPORT: INSTALLED A CATERPILLAR REMANUFACTURED ROD.</p>
10/24/2012	Service	0	WINTER INSPECT BLADE SIDESHIFT CYLINDER	
10/24/2012	Service	0	INTERVIEW CUSTOMER ABOUT MACHINE	
10/26/2013	Service	0	RECONDITION/OVERHAUL TRANSMISSION & DRIVE LINE	<p>**REPAIR SPECIFICATION INCLUDES** -CLEAN TRANSMISSION -DISASSEMBLE AND ASSEMBLE TRANSMISSION, TRANSFER GEARS (IF INTEGRAL PART OF UNIT), AND TORQUE CONVERTER (IF INTEGRAL PART OF UNIT) -REPLACE ALL BEARINGS, SEALS, GASKETS AND LOCKS FURNISH CATERPILLAR HIGH EFFICIENCY CLEAN OUT FILTER AND SCHEDULED OIL SAMPLING KIT -TRANSMISSION PUMP REBEARING/RESEAL (WHEN PUMP IS MOUNTED ON UNIT) -TEST AND ADJUSTMENT (WHEN APPLICABLE) **AVAILABLE AS NEEDED AT ADDITIONAL COST** -PARTS NOT INCLUDED IN THIS REPAIR SPECIFICATION -OTHER PARTS THAT ARE NOT CONSIDERED TO BE A NORMAL WEAR ITEM -REMOVAL AND INSTALLATION OF TRANSMISSION -OIL SYSTEM FLUSH IF REQUIRED -TRANSMISSION PUMP REBUILD (WHEN NOT PART OF THE TRANSMISSION UNIT) -REPLACEMENT OF STATOR, IMPELLER AND/OR TURBINE AS REQUIRED -CHARGES FOR UNACCEPTABLE CORES -PRODUCT IMPROVEMENT UPDATES -OIL COOLER CLEANING OR REPLACEMENT -SALVAGE OR REPLACEMENT OF MAJOR CASTINGS/COVERS/HOUSINGS -MACHINE OR COMPONENT TRANSPORTATION -MILEAGE -SERVICE TRUCK CUSTOM</p>
10/26/2013	Service	0	WINTER INSPECT TRANSMISSION & DRIVE LINE	<p>CUSTOMER COMPLAINT: RECONDITION TRANSMISSION MINOR REPAIR PROCESS COMMENTS: ADD PARTS FOR RECONDITION. CLUTCH DISCS FOR FORWARD CLUTCH, REVERSE AND SECOND, RETURN SPRINGS, CLUTCH DISCS AND PLATES FOR PARK BRAKE, VALVES AND ORIFICES FOR CONTAMINATION.</p>
10/26/2013	Service	0	RECONDITION/OVERHAUL DIFFERENTIAL	<p>***SEE WAGNER EQUIPMENT CO. PRO-RATED MAJOR RECONDITIONED POWERTRAIN COMPONENT WARRANTY FOR COVERAGE DETAILS*** **REPAIR SPECIFICATION INCLUDES** -DISASSEMBLY AND ASSEMBLY OF DIFFERENTIAL -REPLACE ALL BEARINGS, SEALS, GASKETS -RECONDITION OF LUBE PUMP (WHERE APPLICABLE) **AVAILABLE AS NEEDED AT ADDITIONAL COST** -PARTS NOT INCLUDED IN REPAIR SPECIFICATION -SALVAGE OR REPLACEMENT OF MAJOR CASTINGS/COVERS/HOUSINGS, INCLUDING PINION AND RING GEAR -OTHER PARTS THAT ARE NOT CONSIDERED TO BE A NORMAL WEAR ITEM -TRANSPORTATION OF MACHINE OR COMPONENT -CHARGES FOR UNACCEPTABLE CORES -MILEAGE -SERVICE TRUCK CUSTOMER COMPLAINT: RECONDITION DIFFERENTIAL. CAUSE OF FAILURE: CARRIER BEARING ON THE DIFF LOCK SIDE OF THE DIFFERENTIAL FAILED. RESULTANT DAMAGE: FAILED BEARING WORE INTO HOUSING AND BEARING CAGE. RECOMMEND RECONDITION OF DIFFERENTIAL TO REPLACE ALL SEALS AND BEARINGS AS WELL AS DAMAGED PARTS. ONLY FOUND ONE ROLLER FROM THE FAILED BEARING. PI</p>
10/26/2013	Service	0	WINTER INSPECT DIFFERENTIAL	<p>CUSTOMER COMPLAINT: ADD PARTS REPAIR PROCESS COMMENTS: ADD PARTS INCLUDE DIFF HOUSING AND BEARING CAGE.</p>
10/26/2013	Service	0	INTERVIEW CUSTOMER ABOUT MACHINE	
01/28/2014	Service	0	REPAIR WHEEL BRAKE ASSEMBLY	<p>CUSTOMER COMPLAINT: RESEAL ONE SERVICE BRAKE. RESULTANT DAMAGE: FOUND FRICTION DISCS AND PLATES METAL TO METAL. REPAIR PROCESS COMMENTS: CLEANED AND DISASSEMBLED SERVICE BRAKE. CLEANED AND INSPECTED ALL SERVICE BRAKE PARTS. ASSEMBLED SERVICE BRAKES WITH ALL NEW SEALS AND FRICTION DISCS AND PLATES TO CAT SPECS.</p>
01/28/2014	Service	0	INTERVIEW CUSTOMER ABOUT MACHINE	

12/19/2014	Service	22990	RECONDITION/OVERHAUL WHEEL BRAKE ASSEMBLY	**REPAIR SPECIFICATIONS INCLUDE** -DISASSEMBLE AND ASSEMBLE SERVICE BRAKES -RECONDITION AS FOLLOWS: -SHOE TYPE-RELINER SHOES, RESEAL CYLINDERS -CALIPER DISC TYPE-INSTALL NEW LININGS, RESEAL PISTONS-WET DISC TYPE-REPLACE DISC/PLATES AS NEEDED AND RESEAL PISTONS-OPERATIONAL TEST **AVAILABLE AS NEEDED AT ADDITIONAL COST** -PARTS NOT INCLUDED IN THIS REPAIR SPECIFICATION -OTHER PARTS THAT ARE NOT CONSIDERED TO BE A NORMAL WEAR ITEM -OTHER BRAKE SYSTEM REPAIRS NEEDED (ACTUATING MECHANISMS) -SALVAGE OR REPLACEMENT OF DRUM, CALIPER, ROTOR ANCHOR/PISTON-BEARINGS-CHARGES FOR UNACCEPTABLE CORES-MACHINE OR COMPONENT TRANSPORTATION -MILEAGE -SERVICE TRUCK -R & I AXLE CUSTOMER COMPLAINT: RECONDITION 3 SERVICE BRAKES CAUSE OF FAILURE: CUSTOMER REQUEST RESULTANT DAMAGE: NONE REPAIR PROCESS COMMENTS: DISASSEMBLED THREE SERVICE BRAKES, DID FIND TWO HAD BRAKE DISCS AND PLATES THAT HAD GOTTEN HOT AND BURNT. REPLACED ALL BRAKE DISCS AND PLATES, REPLACED BEARINGS AND RESEALED. AIR CHECKED ALL OK.
12/19/2014	Service	22990	INTERVIEW CUSTOMER ABOUT MACHINE	
01/13/2017	Parts	0		
01/13/2017	Parts	0		
01/13/2017	Parts	0		
01/20/2017	Parts	0		
10/11/2019	Service	0	RECONDITION/OVERHAUL RIPPER LIFT CYLINDER	CUSTOMER COMPLAINT: RECONDITION RIPPER LIFT CYLINDER CAUSE OF FAILURE: WORN SEALS RESULTANT DAMAGE: CLEANED DISASSEMBLED AND INSPECTED CYLINDER. DURING DISASSEMBLY FOUND ALL HEAD SEALS TO BE DAMAGED. CLEANED AND POLISHED ROD TO REMOVE LIGHT SCORING, GOOD FOR REUSE. CLEANED AND HONED BARREL TO REMOVE LIGHT SCORING AND GLAZE. CLEANED AND INSPECTED HEAD AND PISTON, PISTON GOOD FOR REUSE. INSPECTED ROD EYE BEARING, GOOD FOR REUSE. CLEANED AND INSPECTED TRUNNION BEARINGS, GOOD FOR REUSE. QUOTED PARTS. REPAIR PROCESS COMMENTS: 10/10/19 -- 5458 REASSEMBLED CYLINDER, WITH NEW SEAL KIT POLISHED ROD AND CLEAN PARTS. TORQUED PISTON BOLT TO 1329 LB FT. TESTED CYLINDER TO 3000 PSI AND FOUND NO LEAKS OR DRIFTING.
10/11/2019	Service	0	WINTER INSPECT RIPPER LIFT CYLINDER	
07/14/2020	Service	0	REPAIR NON-CAT HYD CYLINDER	

Configuration

Configuration Code	Price List	Description
1464337	MAC1	CAT 3306 ENGINE
1124322	MAC1	ALTERNATOR, 75 AMP
8W7645	MAC1	AIR CONDITIONER WITH HEATER
1451300	MAC1	RADIO READY, ENTERTAINMEN
1052772	MAC1	SPEEDOMETER/TACHOMETER
1127492	MAC1	ENGINE, VHP AND LOW EMISSIONS
8W5750	MAC1	AIR DRYER
8X9747	MAC1	ACCUMULATORS, BLADE LIFT
4N3586	MAC1	HEATER, ENGINE COOLANT, 120V
8W4619	MAC1	STARTING AID, ETHER
2A6899	MAC1	HYDRAULICS, BASE & 1 FUNCTION
8X8016	MAC1	BLADE, 14' X 24" X 7/8"
9W7603	MAC1	RIPPER-SCARIFIER, REAR
1129814	MAC1	TIRES, 14-R24 90%
8X-2349		PUSH PLATE,COUNTERWEIGHT
8X-2349		PUSH PLATE,COUNTERWEIGHT
		PL321 PRODUCT LINK
		PL321 PRODUCT LINK

PIP / PSP

Start Date	End Date	PIP No.	PIP Type	Hrs Req.	Description	Status
10/11/1997	10/31/2000	PS5359	A	10.00	STEERING CONSOLE BASE	Expired
11/01/1997	06/30/2000	PS5362	A	1.00	CIRCLE FUNCTION CAN FREEWHEEL	Expired

11/18/1997	11/30/2001	PS5371	A	5.00	INCHING CABLE	Complete
10/12/1998	10/31/2002	PS4594	C	2.00	FUEL GAUGES	Complete
10/13/1998	10/31/2002	PS4617	C	1.50	LOW GEAR PERFORMANCE	Expired
10/14/1998	10/31/2002	PS4593	C	1.50	VI+P PERFORMANCE	Expired
10/15/1998	10/31/2002	PS5500	A	50.00	ROADING NOISE/WHINING ON "H" MG	Expired
04/06/1999	04/30/2002	PS5485	A	1.50	TRANSMISSION CONTROL	Complete
05/14/1999	05/31/2004	PS5642	A	25.00	DIRECTIONAL CLUTCH	Complete
05/24/1999	12/31/2000	PS5608	A	1.50	BLADE TIP BRACKET EXTENSIONS	Expired
10/27/1999	10/31/2001	PS5735	A	1.00	REPL MODULATION PRESSURE SWITCHES	Expired
10/02/2000	10/31/2002	PS50048	A	0.00	RADIATORS IN MOTOR GRADERS	Expired
04/20/2002	04/30/2004	PS50298	A	0.00	FAN SPIDER ON MOTOR GRADERS	Expired
01/18/2008	01/31/2010	PS51433	A	1.00	Replacing engine enclosure latches on ce	Expired