

User: D430

Catalog #:

844H Wheel Dozer, 2011  
SN: OBTW00196Current Hours (SMU): 9803  
Sale Date: 11/17/2010

Delivery Date: Unknown

## Service History

Service Date	Invoice Type	Hours	Description	Service Notes
11/27/2010	Service	10	ASSEMBLE MACHINE	CUSTOMER COMPLAINT: THE LISTED ITEMS WERE MISSING FROM CATERPILLAR MACHINE PARTS SHIPMENT. CAUSE OF FAILURE: NONE. RESULTANT DAMAGE: NONE. REPAIR PROCESS COMMENTS: UNLOADED SHIPMENT OF PARTS FROM ROWE TRUCKING ( 3 TRUCKS ). LIFT AND SET EMPTY TRAILER ONTO ANOTHER TRAILER TO SAVE ROWE TRUCKING A EMPTY RETURN TRIP. COMPLETED UNLOADING AND STAGED PARTS BY 9:45 A.M. CRANE WAS SET UP AND UNLOADED THE DOZER BLADE. THE CRANE THEN SET UP TO LIFT THE MAIN MACHINE. LIFTED MAIN MACHINE AND BLOCKED UP MACHINE. TIRE MAN INSTALLED REAR TIRES. PULLED RAIL TRAILER FROM UNDER MACHINE. CRANE LIFTED AND SET PUSH BEAM. PUSH BEAM WAS ADJUSTED AND SURFACE CLEANED TO TACK WELD PUSH BEAM IN POSITION. IT WAS AT THIS TIME THAT WE NOTICED ALL WELD PARTS FOR THE DOZER PUSH BEAM WERE MISSING. AT THIS POINT WE HAD TO CHANGE OUR ASSEMBLY BECAUSE OF THE MISSING PARTS. I CALLED RUSTY AND INFORMED HIM OF THE MISSING PARTS. ROWE TRUCKING HAD ALSO BEEN NOTIFIED TO CHECK FOR THESE PARTS. THE CAB WAS UNCRATED, LIF
11/27/2010	Service	10	WINTERIZE PUSH ARMS	
03/01/2011	Service	523	REPAIR NON-ROPS CAB	CUSTOMER COMPLAINT: CAB DOOR SEAL COMING OFF. CAUSE OF FAILURE: DOOR SEAL CAME OFF. RESULTANT DAMAGE: DOOR WAS CLOSED ON THE SEAL, DAMAGING IT. REPAIR PROCESS COMMENTS: REMOVED DOOR. REMOVED SEAL. CLEANED DOOR. INSTALLED NEW SEAL ON DOOR WITH GLUE. INSTALLED DOOR AND ADJUSTED. ALL APPEARED OK.
03/01/2011	Service	523	TRAVEL TO/FROM VARIABLE HORSE POWER(VHP)	
03/01/2011	Service	523	REPAIR NON-ROPS CAB	
03/01/2011	Service	523	TRAVEL TO/FROM VARIABLE HORSE POWER(VHP)	
06/29/2011	Service	1084	YARD DUTIES HYDRAULIC SYSTEM	CUSTOMER COMPLAINT: BLADE DRIFTING CAUSE OF FAILURE: LH HOIST CYLINDER PISTON RESULTANT DAMAGE: NONE REPAIR PROCESS COMMENTS: DROVE TO JOB WITH VIC AND CHECKED BLADE DRIFT AND FOUND BLADE WAS DRIFTING PUT MACHINE IN A PILE AND REMOVED AND BLOCKED OFF CYLINDER AND BACKED UP MACHINE AND FOUND THE LH HOIST CYL WAS DRIFTING AND THE RIGHT WAS HOLDING PARKED MACHINE AND REMOVED LH HOIST CYL AND TOOK TO HYD SHOP FOR REPAIRS DROVE BACK TO JOB WITH REBUILT CYLINDER AND INSTALLED AND CHECKED AND FOUND IT WAS STILL DRIFTING CHECKED VALVES AND LOAD CHECKED AND SPOOLS AND COULD NOT FIND ANYTHING WRONG PUT BLADE BACK IN PILE AND CHECKED AND FOUND LH CYL WAS STILL DRIFTING CUSTOMER DID NOT WANT TO DOWN AT THAT POINT DROVE BACK TO JOB ON MONDAY AND REMOVED CYLINDER AND TOOK TO HYD SHOP FOR REPAIRS PICKED UP CYLINDER AND DROVE TO JOB AND INSTALLED ON MACHINE AND CHECKED OPERATION OK MACHINE IS NOT DRIFTING ANYMORE CYL SHOP REPLACED THE PISTON
06/29/2011	Service	1084	REPAIR FOR WARRANTY: LIFT/HOIST CYLINDER	1- 4Z6424 HYDRAULIC CYLINDER / LIFT (LH) DRIFTING *** WANTS BACK 6/9/11 A.M. **** SAVE PARTS FOR POSSIBLE WARRANTY **** FULL MACHINE 999999.0 H 11/17/10 11/17/11 YY CUSTOMER COMPLAINT: CYLINDER BYPASSING INSIDE. CAUSE OF FAILURE: PISTON PLUNGERS STICKING. RESULTANT DAMAGE: LIGHT SCRATCHES INSIDE BARREL BORE. REPAIR PROCESS COMMENTS: CLEANED AND INSPECTED ALL PARTS. HONED BARREL BORE 5.25" X 60.4". INSTALLED KIT AND NEW PISTON. BUILT TO SPECS AND TESTED O.K. NPWO/NPR.
06/29/2011	Service	1084	YARD DUTIES HYDRAULIC SYSTEM	
06/29/2011	Service	1084	TRAVEL TO/FROM VARIABLE HORSE POWER(VHP)	
06/29/2011	Service	1084	REPAIR FOR WARRANTY: LIFT/HOIST CYLINDER	

11/02/2011	Service	1522	REPAIR ELECTRICAL SYSTEM	CUSTOMER COMPLAINT: BATTERY LIGHT COMING ON CAUSE OF FAILURE: HOT SIDE OF STARTER WAS NOT TIGHT ON THE CABLE END RESULTANT DAMAGE: MACHINE WOULD NOT CHARGE UP BATTERIES REPAIR PROCESS COMMENTS: DROVE TO JOB AND CHECKED MACHINE AND FOUND THAT THE ALTERNATOR WAS CHARGING TO 28 VOLTS OK OPENED THE BATTERY BOX AND CHECKED BATTERIES AND FOUND THAT THE BATTERIES WERE NOT CHARGING AND ONLY HAD 23 VOLTS I CHECKED THE SCHEMATIC AND FOUND A 125 AMP FUSE THAT IS SUPPOSED TO BE IN LINE FROM THE ALTERNATOR TO THE STARTER ACCORDING TO THE PARTS PICTURE SO I CHECKED THE WHOLE MACHINE LOOKING FOR THIS 125 AMP FUSE AND NEVER FOUND IT BECAUSE IT IS NOT ON THIS MACHINE STATED CHECKING CABLES AND CHECKED POWER AT JUNCTION BLOCK ON BOTTOM OF OIL PAN OK CHASED CABLES AND CHECKED BREAKER AND FUSES IN ELECTRICAL BOX OK REMOVED BOTTOM GUARD AND CHECKED STARTER AND FOUND CABLE FROM ALTERNATOR TO STARTER WAS NOT TIGHT I TRIED TO REMOVED NUT FROM STARTER BUT THE POST WAS TURNING INSIDE THE SOLENOID I TRIED TO TIG
11/02/2011	Service	1522	REPAIR ELECTRICAL SYSTEM	
11/02/2011	Service	1522	TRAVEL TO/FROM VARIABLE HORSE POWER(VHP)	
12/27/2011	Service	1732	REPAIR GPS	CUSTOMER COMPLAINT: GPS NOT REPORTING BACK TO THOMPSON REPAIR PROCESS COMMENTS: FLASHED THE ECM WITH THE LATEST SOFTWARE CHECKED WITH THE SHOP THEY SAID IT WAS REPORTING. WROTE REPORT AND LEFT THE JOB. OLD SOFTWARE 330-3409 NEW SOFTWARE 384-6463
12/27/2011	Service	1732	REPAIR GPS	
12/27/2011	Service	1732	TRAVEL TO/FROM VARIABLE HORSE POWER(VHP)	
07/15/2013	Service	4255	REPAIR ENGINE,E.C.M.(FLASH)	CUSTOMER COMPLAINT: ENGINE RUNNING ROUGH AT HIGH IDLE CAUSE OF FAILURE: RIGHT TURBO CHARGER SEIZED RESULTANT DAMAGE: NO BOOST PRESSURE ON RIGHT SIDE OF ENGINE REPAIR PROCESS COMMENTS: CHECKED MACHINE AND FOUND ENGINE WAS SMOKING HEAVILY ON THE RIGHT SIDE OF MACHINE. DID A CYLINDER CUT OUT TEST AND THEY ALL PASSED. REMOVED VALVE COVERS FROM RIGHT SIDE OF MACHINE AND CHECKED VALVE TRAIN AND IT WAS GOOD. REMOVED INTAKE PIPE FROM RIGHT TURBO AND FOUND TURBO WAS LOCKED UP. REMOVED OLD TURBO AND INSTALLED A NEW ONE WITH A NEW GASKET AND SEALS. CRANKED MACHINE AND CHECKED OPERATION. ENGINE WAS NO LONGER SMOKING AND WAS RUNNING SMOOTH. PUT MACHINE BACK IN SERVICE.
07/15/2013	Service	4255	REPAIR ENGINE,E.C.M.(FLASH)	
07/15/2013	Service	4255	TRAVEL TO/FROM VARIABLE HORSE POWER(VHP)	TRAVEL TO AND FROM JOB SITE TO MAKE REPAIRS.
12/31/2014	Service	6594	REPAIR ENGINE	CUSTOMER COMPLAINT: INJECTOR MISSING AND TURBO. CAUSE OF FAILURE: TURBO SHAFT BROKE. INJECTOR WIRING HARNESS HAD BAD CONNECTION AT INJECTOR. RESULTANT DAMAGE: EXCESSIVE OIL IN MUFFLER NEEDS TO BE BURNED OUT. NO OTHER DAMAGE. REPAIR PROCESS COMMENTS: TROUBLE SHOOT INJECTOR #2 WIRING HARNESS. USED A WIRING HARNESS REPAIR KIT TO CORRECT #2 INJECTOR CURRENT BELOW NORMAL CODE #2-5. TURBO SHAFT BROKE, REMOVED AND INSTALLED NEW TURBO. TRACTOR WILL SMOKE UNTIL ALL OIL IS BURNED UP IN RIGHT REAR MUFFLER. RETURNED MACHINE BACK INTO SERVICE.
05/19/2016	Service	8795	REPAIR ENGINE	CUSTOMER COMPLAINT: ENGINE NOT RUNNING RIGHT CAUSE OF FAILURE: ENGINE HAD TWO DEAD CYLINDERS RESULTANT DAMAGE: ENGINE HAD LOW POWER REPAIR PROCESS COMMENTS: PLUGGED COMPUTER UP TO MACHINE AND FOUND DIAGNOSTIC CODES FOR NUMBER TWO AND NUMBER THREE INJECTOR. ORDERED TWO NEW INJECTORS AND DROVE TO THOMPSON'S SHOP AND PICKED UP THE PARTS. WENT BACK TO GORGAS THE NEXT MORNING. REMOVED AIR FILTER PIPING TO ACCESS LEFT FRONT AND RIGHT FRONT VALVE COVERS. REMOVED ENGINE ECM AND VALVE COVERS. FOUND A BROKEN WIRE ON NUMBER TWO INJECTOR. REPAIRED THE WIRE AND PUT RIGHT SIDE OF ENGINE BACK TOGETHER. FOUND NUMBER THREE INJECTOR WAS BAD, SO I REMOVED THE ROCKER SHAFT ASSEMBLY AND REMOVED THE OLD INJECTOR. CLEANED UP THE INJECTOR HOLE AND EVACUATED THE CYLINDER OF FUEL. INSTALLED NEW INJECTOR WITH NEW HOLD DOWN BOLT. TORQUED HOLD DOWN BOLT AND INSTALLED ROCKER SHAFT ASSEMBLY. TORQUED ROCKER SHAFT BOLTS AND CONNECTED WIRES TO NEW INJECTOR. INSTALLED VALVE COVER AND INTAKE PIPING. RAN ENGINE AND ENTERED
05/15/2018	Service	11271	REPAIR ENGINE	INCIDENT: New sensor failed CORRECTION: Ordered new sensor and replaced failed sensor. Part was ordered on segment CAUSE: New sensor failed FAILURE DESCRIPTION: Sensor not reading correctly.

05/21/2018	Service	11271	REMOVE AND INSTALL ENGINE	INCIDENT: REMOVE ENGINE FOR REBUILD CORRECTION: AFTER REMOVING COOLER PACKAGE IN SEG 04 AND DISCONNECTED TRANSMISSION IN SEG 02 REMOVED THE HOOD ASSEMBLY FROM OVER THE ENGINE. DISCONNECTED THE FUEL LINES AND COOLANT LINES FROM ENIGNE. DISCONNECTED THE TORQUE CONVERTER AND PUMPS. REMOVED THE FRONT MOUNTS AND THE REAR CAPS. REMOVED THE RADIATOR TANK OVER ENGINE AND DICONNECTED FIRE SUPPRESSION. REMOVED OIL COOLER HOSES FROM ENGINE AND A/C LINES. PULLED ENGINE WITH TORQUE CONVERTER. WHILE ENGINE WAS OUT REPLACED COOLANT HOSES, FUEL LINES AND THE HYDRAULIC HOSES TO FAN MOTOR. CLEANED UP MOUNTS AND WHEN ENGINE CAME BACK INSTALLED IN FRAME AND CONNECTED THE COOLANT AND FUEL LINES BACK UP. CONNECTED HARNESSES AND STARTER WIRES. SET HOOD BACK OVER THE ENGINE AND BOLTED WITH NEW BOLTS DUE TO OLD BOLTS WERE RUST AND PITTED. INSTALLED NOZZLES FOR FIRE SUPPRESSION SYSTEM BUT DID NOT CONNECT HOSES BACK. INSTALLED RADIATOR TANK BACK OVER ENGINE AND CONNECTED HOSES. INSTALLED AIR PIPING AND CONNECTED T
05/21/2018	Service	11271	REMOVE AND INSTALL TRANSMISSION	INCIDENT: REMOVE TRANSMISSION FOR POWERTRAIN REBUILD CORRECTION: CLEANED COAL OUT FROM AROUND TRANSMISSION WITH AN AIR BLOWER AND SHOVEL. DISCONNECTED HOSES AND WIRING TO CAB AND ROPS. REMOVED DECK PLATES FROM OVER THE TRANSMISSION. REMOVED DECK PLATE BRACKETS AND GUARDS. THE DECK PLATES THAT HAD THE FIRE SUPPRESSION TANKS WE DISCONNECTED THE HOSES TO THE TANKS AND PULLED HOSES OUT. HAD THE CUSTOMER BRING THEIR SMALL CRANE AND SET THE ROPS OFF. HAD TO DISCONNECT HOSE AND WIRING TO THE FIRE SUPPRESSION SYSTEM AND PULL OUT THROUGH CAB. HAD TO REMOVE PLASTICS FROM INSIDE DASH TO ACCESS THE CAB MOUNT BOLTS. AFTER REMOVING BOLTS. THE CUSTOMER SET CAB OFF USING THE SMALL CRANE AGAIN. DISCONNECTED THE STEERING VALVE AND REMOVED. DISCONNECTED THE HYDRAULIC FILTER HOUSING AND REMOVED. I THEN DISCONNECTED THE HOSES FRONT TOP AND BOTTOM OF TRANSMISSION. REMOVED SEVERAL HOSES COMPLETELY IN ORDER TO PULL TRANS. DISCONNECTED THE FRONT AND REAR DRIVELINES AND THE SMALL DRIVELINE TO TORQUE CONVERTER. A
05/21/2018	Service	11271	REMOVE AND INSTALL TRANSFER GEARS	
05/21/2018	Service	11271	REMOVE AND INSTALL RADIATOR	INCIDENT: REMOVE RADIATOR FOR POWERTRAIN REBUILD CORRECTION: REMOVED GUARDS AND SHEET METAL BETWEEN COOLER PACKAGE AND THE ENGINE HAD TO CLEAN COAL OUT FROM AROUND MOUNT BOLTS AND HOSES. DRAINED THE COOLANT AND DISCONNECTED THE COOLANT LINES. DISCONNECTED THE OIL COOLERS AND AIR TO AIR. THE MOUNT BOLTS WERE RUSTED AND STRIPPED. HAD TO WELD NUTS ON A FEW OF THEM IN ORDER TO REMOVE. AFTER GETTING THE MOUNT BOLTS WE SET THE COOLER PACKAGE OFF THE MACHINE. DISSASSEMBLED PACKAGE AND REMOVED COOLERS, ATA AND RADIATOR CORES. SENT ALL TO MCNUTTS. CLEANED OUT BOTTOM RADIATOR TANK. MCNUTTS SAID THAT 5 OF THE RADIATOR CORES WERE NO GOOD. ORDERED NEW CORES. WHEN CORES CAME IN INSTALLED THE NEW CORES IN THE PACKAGE. INSTALLED THE OLD CORES THAT WERE GOOD. INSTALLED THE ATA AND THE OIL COOLERS. HAD TO REPLACE THE FUEL COOLER BACAUSE IT WAS BROKE ON BOTH SIDES. REASSEMBLED THE PACKAGE. CLEANED MOUNTING SURFACE AND SET PACKAGE BACK ONTO MACHINE. INSTALLED ALL NEW MOUNT BOLTS. CONNECTED THE OIL COOLERS
05/21/2018	Service	11271	REMOVE AND INSTALL DIFFERENTIAL	INCIDENT: REMOVE DIFFERENTIAL FOR REBUILD CORRECTION: SET STEEL PLATES ON THE GROUND USED OUR BIG HYDRAULIC JACKS FOR THE REAR AND BACKED THE MACHINE OVER THEM. PICKED THE FRONT OF THE MACHINE UP WITH BLADE AND SET SMALLER JACK STANDS UNDER THE FRAME. LIFTED REAR AND GOT MACHINE OFF THE GROUND. MCGRIFFS TIRE CAME OUT AND PULLED THE TIRES. DISCONNECTED THE GREASE LINES AND HOSES FROM BOTH DIFFERENTIALS. USED A TRUCK ON BOTH SIDES TO DROP THE DIFFERENTIAL. REMOVED THE DRIVELINES AND DROPPED THE DIFFERENTIAL. SENT THEM TO SHOP. WHILE DIFFERENTIALS WERE AT THE SHOP WE REPLACED THE FRONT GREASE LINES TO THE CENTER PIN AND LIFT CYLINDERS. REMOVED THE FRONT DRIVELINE AND REPLACED THE HANGER BEARING. COULDNT GET BEARINGS OUT SO WE HAD TO TORCH THE BEARINGS OUT. ONCE WE GOT THEM OUT INSTALLED NEW BEARINGS AND REINSTALLED. WHEN DIFFERENTIALS CAME BACK CLEANED THE MOUNTING SURFACE AND INSTALLED DIFFERENTIALS WITH ALL NEW BOLTS. CONNECTED HOSES AND GREASE LINES. FILLED WITH OIL. MCGRIFFS CAME BACK
05/21/2018	Service	11271	REMOVE AND INSTALL TORQUE CVTR,DVDR,RETARD	

05/21/2018	Service	11271	REMOVE AND INSTALL PRIMARY LIFT CYL-DUPLEX	INCIDENT: REBUILD POWERTRAIN AND HYDRAULICS CORRECTION: BLOCKED UP THE BLADE AND REMOVED PUSH ARMS AND TILT CYLINDERS SEG 09. DISCONNECTED THE LIFT CYLINDERS AND TAG LINK. MOVED BLADE AWAY FROM MACHINE WITH CUSTOMER FORK LIFT. DISCONNECTED HOSES TO CYLINDERS AND HARNESSSES. REMOVED CYLINDERS AND SENT TO SHOP. WHILE CYLINDERS WERE OFF REPLACED THE LIFT CYLINDER HOSES AND REMOVED THE VALVE IN THE FRONT. SENT IN SHOP. WHEN IT CAME BACK IN WE INSTALLED WITH ALL NEW HOSES. INSTALLED LIFT CYLINDERS AND CONNECTED. SET BLADE BACK IN FRONT OF MACHINE AND CONNECTED THE LIFT CYLINDERS AND TAGLINK AND PUSH ARMS. CAUSE: REBUILD POWERTRAIN AND HYDRAULICS FAILURE DESCRIPTION: REBUILD POWERTRAIN AND HYDRAULICS
05/21/2018	Service	11271	REMOVE AND INSTALL STEERING CYLINDER	INCIDENT: REMOVE STEER CYLINDER FOR REBUILD CORRECTION: REMOVED THE HOSES FROM THE CYLINDERS. WAS ABLE TO KNOCK THE FRONT PINS OUT WITH HAMMER. HAD TO GET A WELDER OUT TO GOUGE BOTH REAR PINS OUT. REMOVED CYLINDERS AND SENT TO SHOP. WHILE CYLINDERS WERE OFF REPLACED THE HOSES. REINSTALLED WITH NEW PINS AND CONNECTED HOSES. ALL OK CAUSE: REBUILD POWERTRAIN AND HYDRAULICS FAILURE DESCRIPTION: REBUILD POWERTRAIN AND HYDRAULICS
05/21/2018	Service	11271	REMOVE AND INSTALL TILT CYLINDER	INCIDENT: REMOVE TILT CYLINDERS FOR REBUILD CORRECTION: TRIED KNOCKING PINS OUT OF THE TILT CYLINDERS BUT HAD TO GET WELDER OUT THERE AND GOUGE PINS OUT ON BOTH TILT CYLINDERS. AFTER GOUGING 3 OF 4 PINS DISCONNECTED AND REMOVED THE TILT CYLINDERS. SENT CYLINDERS TO SHOP, WHEN THEY CAME BACK WE REINSTALLED WITH NEW PINS AND HOSES. ALL OK ALSO REMOVED BLADE ON THIS SEGMENT. REPLACED SEVERAL PINS THAT WERE WORN, OR HAD TO BE CUT OUT. CAUSE: REBUILD POWERTRAIN AND HYDRAULICS FAILURE DESCRIPTION: REBUILD POWERTRAIN AND HYDRAULICS
05/21/2018	Service	11271	REMOVE AND INSTALL TRUCK 57	
05/21/2018	Service	11271	REPAIR HYDRAULIC SYSTEM	INCIDENT: VOID CORRECTION: VOID CAUSE: VOID FAILURE DESCRIPTION: VOID
05/21/2018	Service	11271	RECONDITION/OVERHAUL TRANSMISSION	INCIDENT: recondition CORRECTION: disassembled, cleaned, inspected transmission. rebuilt to latest cat specs. Replaced all seals, bearings and bad hard parts. ran on test bench and shipped back to customer. CAUSE: worn seals and bearings FAILURE DESCRIPTION: n/a
05/21/2018	Service	11271	RECONDITION/OVERHAUL TRANSFER GEARS	INCIDENT: Recondition Transfer gears CORRECTION: Tear down and clean parts and rebuilt pieces as needed. Also built to CAT specs. CAUSE: Excess wear to all bearings and seals. FAILURE DESCRIPTION: Excess wear to all bearings and seals, Not meeting CAT usable guidelines requiring replacement.
05/21/2018	Service	11271	RECONDITION/OVERHAUL TORQUE CVTR,DVDR,RETARD	INCIDENT: recondition CORRECTION: disassembled, cleaned, inspected converter. rebuilt to latest cat specs. Replaced all seals, bearings and bad hard parts. ran on test bench and shipped back to customer. CAUSE: worn out seals and bearings. FAILURE DESCRIPTION: n/a
05/21/2018	Service	11271	RECONDITION/OVERHAUL DIFFERENTIAL	INCIDENT: N/A CORRECTION: Disassembled, Cleaned, inspected, and reassembled to CATS latest Specs. Replaced all seals, bearings, and pinion and bevel gear. CAUSE: Seals and bearings worn allowing debris to run through componet FAILURE DESCRIPTION: damage to pinion and bevel gear
05/21/2018	Service	11271	RECONDITION/OVERHAUL DIFFERENTIAL	INCIDENT: N/A CORRECTION: Disassembled, cleaned, inspected, and reassembled to CATS latest Specs. Replaced all seals, bearings, and pinion. CAUSE: seals and bearings worn allowing debris to run through componet FAILURE DESCRIPTION: damage to pinion
05/21/2018	Service	11271	RECONDITION/OVERHAUL FINAL DRIVE(S)	INCIDENT: Rebuild power train. CORRECTION: Disassembled, cleaned, inspected, and reassembled. Replaced all bearings, seals, and brake disc. CAUSE: Normal wear to all seals, bearings, and disc. FAILURE DESCRIPTION: Wear to seals, bearings, and disc.
05/21/2018	Service	11271	RECONDITION/OVERHAUL FINAL DRIVE(S)	INCIDENT: Rebuild power train. CORRECTION: Disassembled, cleaned, inspected, and reassembled. Replaced all bearings, seals, and brake disc. CAUSE: Normal wear to all seals, bearings, and disc. FAILURE DESCRIPTION: Wear to seals, bearings, and disc.
05/21/2018	Service	11271	REPAIR HYDRAULIC SYSTEM	INCIDENT: Replace all Hyd. Hoses CORRECTION: While performing hyd and PT rebuild. Replaced all hyd hoses on machine. All parts ordered on this segment. CAUSE: Customer requested all hyd hoses to be replaced. FAILURE DESCRIPTION: Hyd & PT rebuild
05/21/2018	Service	11271	RECONDITION/OVERHAUL FINAL DRIVE(S)	INCIDENT: Rebuild power train. CORRECTION: Disassembled, cleaned, inspected, and reassembled. Replaced all bearings, seals, and brake disc. CAUSE: Normal wear to all seals, bearings, and disc. FAILURE DESCRIPTION: Wear to seals, bearings, and disc.
05/21/2018	Service	11271	RECONDITION/OVERHAUL FINAL DRIVE(S)	INCIDENT: Rebuild power train. CORRECTION: Disassembled, cleaned, inspected, and reassembled. Replaced all bearings, seals, and brake disc. CAUSE: Normal wear to all seals, bearings, and disc. FAILURE DESCRIPTION: Wear to seals, bearings, and disc.
05/21/2018	Service	11271	WASH, FUEL&GO ENGINE	
05/21/2018	Service	11271	CLEAN. ENGINE	
05/21/2018	Service	11271	DISASSEMBLE ENGINE	
05/21/2018	Service	11271	INSPECT CYLINDER BLOCK	INCIDENT: * CORRECTION: INSPECT AND RECONDITION CYLINDER BLOCK, CHECK SPACER PLATE INSPECT ALL PLUGS AND SLEEVE BEARINGS AND CHECK LINER PROJECTION CAUSE: * FAILURE DESCRIPTION: *
05/21/2018	Service	11271	DISASSEMBLE PISTONS & LINERS	INCIDENT: * CORRECTION: DISASSEMBLE AND RECONDITION PISTONS, LINERS, OIL PUMP, OIL FILTER BASE, HYD. FAN DRIVE AND CONN RODS, AND PISTON COOLING JETS CAUSE: * FAILURE DESCRIPTION: *

05/21/2018	Service	11271	WELDING SHOP WATER PUMP	INCIDENT: general rebuild CORRECTION: DISASSEMBLE, CLEAN, AND RECONDITION WATER PUMP rebuilt with new bearings, shaft, and seals CAUSE: no cause of failure to be found FAILUREDESCRIPTION: no damage
05/21/2018	Service	11271	DISASSEMBLE ZONE 1 LAFARGE	INCIDENT: general rebuild CORRECTION: DISASSEMBLE, CLEAN, TEST OIL COOLERS - RECONDITION OIL COOLERS AND AFTERCOOLERS, FAN DRIVES, AND BELT TENSIONERS pump drives rebuilt with new bearings coolers pressure tested good rebuilt with new gaskets, o-rings oil man on cooler rebuilt with new springs plungers gasket and mounting o-rings CAUSE: no cause of failure to be found FAILUREDESCRIPTION: no damage
05/21/2018	Service	11271	CLEAN. CAMSHAFT	INCIDENT: Engine rebuild. CORRECTION: CLEAN, POLISH AND CHECK CAMSHAFT DISASSEMBLE, CLEAN, AND RECONDITION ROCKER ARMS CAUSE: . FAILUREDESCRIPTION: Normal wear.
05/21/2018	Service	11271	RECONDITION/OVERHAUL ELECTRIC STARTING MOTOR	INCIDENT: Engine rebuild. CORRECTION: RECONDITION STARTER CAUSE: . FAILUREDESCRIPTION: Normal wear.
05/21/2018	Service	11271	WELDING SHOP WIRING HARNESS	INCIDENT: Engine rebuild. CORRECTION: DISASSEMBLE, CLEAN, AND RECONDITION WIRING HARNESS FOR ELECTRONIC ENGINES ONLY. CHECK ALTERNATORS AND REPLACE ANY BROKEN SENDING UNITS. CAUSE: . FAILUREDESCRIPTION: Normal wear.
05/21/2018	Service	11271	WELDING SHOP TURBOCHARGER GP	INCIDENT: Engine rebuild. CORRECTION: DISASSEMBLE, CLEAN AND RECONDITION TURBOCHARGER AND AIR COMPRESSORS CAUSE: . FAILUREDESCRIPTION: Normal wear.
05/21/2018	Service	11271	WELDING SHOP FUEL SYSTEM	INCIDENT: rebuild CORRECTION: DISASSEMBLE, CLEAN, AND RECONDITION THE FUEL SYSTEM, GOVERNOR, VARIABLE TIMING UNIT, TRANSFER PUMP, HOUR METER, DRIVES AND HOUSINGS, AND AFRC UNIT TEST NOZZLES CAUSE: N/A FAILUREDESCRIPTION: N/A
05/21/2018	Service	11271	WELDING SHOP CYLINDER HEAD ASSEMBLY	INCIDENT: F/R Rebuild CORRECTION: Cleaned and magnafluxed both heads to check for cracks. No cracks found. Removed manifolds and all fittings and plugs from heads. Removed all valves and springs from heads. Heads had old intake vavles that CAT has issued an update for. Exhaust valves wer ewithin CAT reusability specs. Ground vavles within spec. On head casting was good for reuse. The other head had beyond acceptable wear to rocker arm seats. Used one of the specarea heads we had that still needed intake valve update. Placed reusable head in vat to clean. Placed all parts in wash to clean as well. Ordered updated intake vavles and seats per CAT guidlines. Ordered new cam bearings along with rotocoils and all seals, gaskets and manifold hardware. Parts arrived and removed head from vat and parts from wash. Began assembly of heads. Installed all vavles into both heads and vaccuum checked vavles. Vaccuum check ok. Installed manifolds onto heads per CAT specs. Installed new cam bearings in
05/21/2018	Service	11271	ASSEMBLE SHORT BLOCK	
05/21/2018	Service	11271	ASSEMBLE ENGINE	INCIDENT: NA CORRECTION: COMPLETE ASSEMBLY OF ENGINE. ENSURE ALL QUALITY CHECKS ARE PERFORMED CAUSE: NA FAILUREDESCRIPTION: NA
05/21/2018	Service	11271	TEST/CHECK & COMMISSION ENGINE	
05/21/2018	Service	11271	DYNO ENGINE	
05/21/2018	Service	11271	SAND ENGINE	INCIDENT: NA CORRECTION: CLEAN AND PREP FOR PAINTING - INCLUDES SWAPPING STANDS, BRASS TAGS AND DYNO STICKERS CAUSE: NA FAILUREDESCRIPTION: NA
05/21/2018	Service	11271	REPAIRS AS PER QUOTATION ENGINE	
05/21/2018	Service	11271	COUNTERBORE (S) CYLINDER BLOCK	INCIDENT: . CORRECTION: resurface top deck and machined counterbores CAUSE: . FAILUREDESCRIPTION: .
05/21/2018	Service	11271	WATER FERRULE / MACHINE CYLINDER BLOCK	INCIDENT: . CORRECTION: setup on cnc mill, mill 48 ports and install water ferrules CAUSE: . FAILUREDESCRIPTION: .
05/21/2018	Service	11271	MACHINE/GRIND/MILL CYLINDER BLOCK	INCIDENT: . CORRECTION: setup on cnc mill, bore lower deck and install 1 lower deck bushing. chamfer lower deck bushing CAUSE: . FAILUREDESCRIPTION: .
05/21/2018	Service	11271	SALVAGE REPAIR URBANA NON-TECH (01)	
05/21/2018	Service	11271	RECONDITION/OVERHAUL HYDRAULIC CONTROL VALVE	INCIDENT: N/A CORRECTION: Disassembled and inspected, found normal wear inside valve. Cleaned out and replaced all seals then reassembled, tetsed and installed back on plate. CAUSE: none FAILUREDESCRIPTION: none
05/21/2018	Service	11271	RECONDITION/OVERHAUL STEERING VALVE	INCIDENT: N/A CORRECTION: Disassembled and inspected, found normal wear inside valve. Cleaned out and replaced all seals then reassembled and installed back on plate. CAUSE: none FAILUREDESCRIPTION: none
05/21/2018	Service	11271	RECONDITION/OVERHAUL TILT CONTROL VALVE	INCIDENT: N/A CORRECTION: Disassembled and inspected, found normal wear inside valve. Cleaned out and replaced all seals then reassembled and installed back on plate. CAUSE: none FAILUREDESCRIPTION: none
05/21/2018	Service	11271	RECONDITION/OVERHAUL HYDRAULIC FAN PUMP	INCIDENT: remove & install- Engine CORRECTION: The motor was cleaned and dissassembled, the shaft seal as well as O-rings and seals replaced. The piston rings were in good working order and re assembled. The motor was then assembled and bench tested to CAT specifications. CAUSE: N/A FAILUREDESCRIPTION: N/A
05/21/2018	Service	11271	ULTRASONIC TEST ENGINE	INCIDENT: Engine rebuild. CORRECTION: . CAUSE: . FAILUREDESCRIPTION: Normal wear.
05/21/2018	Service	11271	RESEAL+LIGHT HONE TILT CYLINDER	INCIDENT: REPAIR/RESEAL CORRECTION: WASHED CYLINDERS TO REMOVE DIRT AND DEBRIS. DISASSEMBLED CYLINDERS AND INSPECTED ALL COMPONENTS. FOUND SEALS WORN AND SURFACE SCRATCHES AND DINGS TO RODS. BOTH RODS NEEDED RECHROMED. BEARINGS RUSTED AND BROKEN. NEED REPLACEMENT. CLEANED ALL COMPONENTS TO REMOVE OLD DEBRIS. POLISHED SEAL GROOVES. RESEALED COMPONENTS AND REASSEMBLED. REPLACED WORN AND BROKEN BEARINGS. TESTED BOTH CYLINDERS. BOTH TESTED OK. CAUSE: WORN SEALS. SLIGHT SCRATCHES TO SURFACE ON RODS FAILUREDESCRIPTION: WORN SEALS/DAMAGE TO EYE BORES

05/21/2018	Service	11271	RESEAL+LIGHT HONE PRIMARY LIFT CYL-DUPLEX	INCIDENT: RESEAL/REPAIR CORRECTION: WASHED CYLINDERS TO REMOVE DIRT AND DEBRIS. DISASSEMBLED CYLINDERS AND INSPECTED ALL COMPONENTS. FOUND SEALS WORN AND SURFACE SCRATCHES TO RODS. POLISHED BOTH RODS. BEARINGS RUSTED AND BROKEN. NEED REPLACEMENT. CLEANED ALL COMPONENTS TO REMOVE OLD DEBRIS. POLISHED SEAL GROOVES. RESEALED COMPONENTS AND REASSEMBLED. REPLACED WORN AND BROKEN BEARINGS. TESTED BOTH CYLINDERS. BOTH TESTED OK. CAUSE: WORN SEALS FAILURE DESCRIPTION: WORN SEALS AND BROKEN BEARINGS
05/21/2018	Service	11271	RESEAL+LIGHT HONE STEERING CYLINDER	INCIDENT: REPAIR/RESEAL CORRECTION: DISASSEMBLED CYLINDERS AND INSPECTED ALL COMPONENTS. CLEANED COMPONENTS AND RESEALED. POLISHED RODS. REASSEMBLED CYLINDERS. TESTED OK. NPWO NPR CAUSE: WORN SEALS FAILURE DESCRIPTION: WORN SEALS
05/21/2018	Service	11271	RECONDITION/OVERHAUL STEERING PUMP	INCIDENT: recondition steering pump. CORRECTION: The pump was cleaned and dissassembled, after dissassembly the head showed signs of wear in housing, not economical to repair An OR pump was orderd. Core was returned and replacement pump installed with original fittings. CAUSE: Worn housing. FAILURE DESCRIPTION: replacement pump orderd.
05/21/2018	Service	11271	ULTRASONIC TEST NON-CAT HYD CYLINDER	INCIDENT: REPAIR EYE BORE CORRECTION: WELDED AND REMACHINED EYE BORES TO SPECIFICATIONS. CAUSE: WEAR AND DAMAGE TO EYE BORES FAILURE DESCRIPTION: BROKEN BEARINGS/DAMAGE TO BEARINGS
05/21/2018	Service	11271	RECONDITION/OVERHAUL TRUCK 57	INCIDENT: Recondition pumps to level 1 condition. CORRECTION: Disassembled fan pump and pilot pump. Resealed pilot pump, lapped barrel and port plate in fan pump, rebearing and resealed fan pump. Test and adjust fan pump on test bench. The steering pump was cleaned, disassembled and inspected. The pump was reassembled with new, barrel, port plate, bearings and seals. The swashplate and piston slippers were both resurfaced. The pump was tested to caterpillar specification. The vane pump was cleaned, disassembled and inspected. The cartridge kit rings were rippled. The pump was reassembled with new bearings, cartridge kits and seals. the pump was tested to specification.. CAUSE: Machine is having powertrain rebuild. FAILURE DESCRIPTION: None
05/21/2018	Service	11271	REPAIR PARKING/SECONDARY BRAKE	
05/21/2018	Service	11271	REPAIR TORQUE CVTR,DVDR,RETARD	INCIDENT: housing cracked when removing from converter CORRECTION: replaced with used housing CAUSE: cracked housing FAILURE DESCRIPTION: converter housing
06/22/2018	Service	11571	REPAIR ELECTRICAL SYSTEM	
07/09/2018	Service	11606	REPAIR TRUCK 27	INCIDENT: REPAIR HYD LEAK CORRECTION: 06-29-18 DROVE TO CUSTOMER SITE. DISCUSSED WITH CUSTOMER. LEAK ON LEFT SIDE OF FRAME UNDER CAB. RAN AND REPOSITIONED MACHINE IN ORDER TO VISUALIZE LEAK. FOUND LEAK ON JUNCTION ELBOW/UNION ON STEERING HOSE. CLEANED AND FOUND SEAL CUT. REPLACED SEAL WITH ONE I HAD ON MY SERVICE TRUCK, TIGHTENED NUT. CLEANED AND RAN MACHINE. NO LEAK SEEN. DISCUSSED WITH CUSTOMER ABOUT WASHING OIL FROM AFFECTED AREA AND RUNNING TO VERIFY LEAK REPAIRED. RETURNED TO SHOP. CAUSE: SEAL FAILURE DESCRIPTION: LOSS OF HYDRUALIC OIL
07/10/2018	Service	11643	REPAIR HYDRAULIC HOSES/LINES	INCIDENT: REPAIR HYDRAULIC OIL LEAK ON CONTROL VALVE CORRECTION: 07-06-18 DROVE TO CUSTOMER SITE. INSPECTED MACHINE AND FOUND OIL LEAK TO BE COMING FROM MAIN CONTROL VALVE AREA. REMOVED TOP COVER AND FOUND OIL LEAKING FROM RIGHT LOWER CORNER. HAD OPERATOR RUN MACHINE AND OBSERVED OIL COMING AROUND PLUG FOR CHECK VALVE. FOUND PLUG TO BE LOOSE. REMOVED PLUG AND FOUND SEAL BLOWN. INSTALLED NEW SEAL AND REINSTALLED PLUG. TIGHTENED PLUG. RAN AND VERIFIED NO OIL LEAK. REINSTALLED COVER AND RETURNED MACHINE TO CUSTOMER. RETURNED TO SHOP. CAUSE: LOOSE PLUG FAILURE DESCRIPTION: BLOWN SEAL ALLOWING OIL LEAK
07/31/2018	Service Credit	11643	REPAIR HYDRAULIC HOSES/LINES	INCIDENT: REPAIR HYDRAULIC OIL LEAK ON CONTROL VALVE CORRECTION: 07-06-18 DROVE TO CUSTOMER SITE. INSPECTED MACHINE AND FOUND OIL LEAK TO BE COMING FROM MAIN CONTROL VALVE AREA. REMOVED TOP COVER AND FOUND OIL LEAKING FROM RIGHT LOWER CORNER. HAD OPERATOR RUN MACHINE AND OBSERVED OIL COMING AROUND PLUG FOR CHECK VALVE. FOUND PLUG TO BE LOOSE. REMOVED PLUG AND FOUND SEAL BLOWN. INSTALLED NEW SEAL AND REINSTALLED PLUG. TIGHTENED PLUG. RAN AND VERIFIED NO OIL LEAK. REINSTALLED COVER AND RETURNED MACHINE TO CUSTOMER. RETURNED TO SHOP. CAUSE: LOOSE PLUG FAILURE DESCRIPTION: BLOWN SEAL ALLOWING OIL LEAK
07/31/2018	Service	11643	REPAIR HYDRAULIC HOSES/LINES	INCIDENT: REPAIR HYDRAULIC OIL LEAK ON CONTROL VALVE CORRECTION: 07-06-18 DROVE TO CUSTOMER SITE. INSPECTED MACHINE AND FOUND OIL LEAK TO BE COMING FROM MAIN CONTROL VALVE AREA. REMOVED TOP COVER AND FOUND OIL LEAKING FROM RIGHT LOWER CORNER. HAD OPERATOR RUN MACHINE AND OBSERVED OIL COMING AROUND PLUG FOR CHECK VALVE. FOUND PLUG TO BE LOOSE. REMOVED PLUG AND FOUND SEAL BLOWN. INSTALLED NEW SEAL AND REINSTALLED PLUG. TIGHTENED PLUG. RAN AND VERIFIED NO OIL LEAK. REINSTALLED COVER AND RETURNED MACHINE TO CUSTOMER. RETURNED TO SHOP. CAUSE: LOOSE PLUG FAILURE DESCRIPTION: BLOWN SEAL ALLOWING OIL LEAK

09/19/2018	Service	11953	REPAIR DIFFERENTIAL	INCIDENT: Rear diff leaking oil. CORRECTION: 8-31-18 Drove to job site and located machine. Talked with Ted Self about issue. We then went and looked at machine. I found all the bolts had come out of the chunk housing on the rear diff. I tried to re-install the bolts with no success. Took pictures and informed Joe. Tagged machine out and let job site. 9-4-18 We returned to the job site and had machine brought to the Red Rock Lot. We then put machine up on stands in the rear and blocks under the center. Called GCR to have tires removed and waited on them to arrive for hours. Upon there arrival we un-bolted tires and wheels and they removed. We then un-hooked the grease hoses and brake lines. Removed diff from the machine and drug it out. Waited on GCR to return to haul it to the shop. When they arrived we set it on there truck and left job site. 9-13-18 Loaded diff at the shop and filled diff. and final drives with oil before leaving shop. Drove to job site and installed diff under ma
09/19/2018	Service	11953	REPAIR DIFFERENTIAL	INCIDENT: N/A CORRECTION: removed trunnion and inspected rear axle housing for damage CAUSE: bolts backed out stripping out bolt holes in housing FAILUREDESCRIPTION: Bolt holes in axle housing stripped out
09/20/2018	Service	11953	REPAIR ELECTRIC STARTING MOTOR	INCIDENT: Starter leaking CORRECTION: 9-4-18 Was at job site performing another repair on this machine when a leak was noticed. Inspected source of leak and found oil leaking from starter nose cones area. (Pictures) I then looked up and ordered parts to make the repair. 9-5-18 Picked up parts at the shop and returned to job site. We removed the right side engine panels to gain access to starter wires. Un-hooked starter and removed mount bolts. We fished starter out through the bottom and removed nose cone. Upon removal I found the nose cone seal to be hard and the rubber balls were flat but still pliable. We cleaned up the nose cone and front cover. Replaced nose cone seal and turned the rubber balls over and re-installed with RTV. Glued a new mount gasket onto nose and re-installed starter. Hooked up wires and left job site. After returning to the shop I returned un-used parts and put seal in warranty room. CAUSE: Nose cone seal hard. FAILUREDESCRIPTION: Loss of oil from a threaded h
10/01/2018	Service	11953	REPAIR DIFFERENTIAL	
04/10/2019	Service	12850	PRODUCT PROGRAM UPDATE SERVICE LTR AUTHORIZATION	
04/15/2019	Service	12850	PRODUCT PROGRAM UPDATE SERVICE LTR AUTHORIZATION	

#### Fluid Analysis

Date	Hours	Compartment	Severity	Interpretation
09/21/2015	7,907	ENGINE	No Action Required	NORMAL WEAR METAL READINGS. NO PROBLEMS PRESENTLY ASSOCIATED WITH THIS SAMPLE. CONTINUE SAMPLING AT THE NORMAL INTERVAL.
07/20/2015	7,530	ENGINE	No Action Required	NORMAL WEAR METAL READINGS. NO FUEL DETECTED THIS SAMPLE. CONTINUE SAMPLING AT THE NORMAL INTERVAL.