



REMIT TO: Michigan CAT
 Dept.# 77576
 P.O. BOX 77000
 Detroit, Michigan 48277-0576

Service Dept. Ph 616 827 8000
 7700 Caterpillar Drive SW Fax 616 827 7700
 Grand Rapids, Michigan 49548

CUSTOMER INVOICE

SOLD TO

Generator rental maintenance
 (Internal charge)

INVOICE NUMBER	INVOICE DATE	ORDER NUMBER	DOCUMENT DATE	CUSTOMER PO NUMBER	PAGE
SD3534955	10/16/2013	GR-WO-3053885	05/02/2013		1 OF 15
MAKE	MODEL	EQUIPMENT NUMBER	SERIAL NUMBER	METER READING	SHIP VIA
CATERPILLAR	XQ2000		0BPD00890	18665	
QUANTITY	ITEM	DESCRIPTION	UNIT PRICE	EXTENSION	

SEG. 1 / REMOVE & INSTALL / ENGINE

COMPLAINT: R & I ENGINE AND RADIATOR FROM TRAILER

REPAIR: REMOVED THE RADIATOR VENTS AND DRAINED THE COOLANT. REMOVED COOLANT TUBING. REMOVED RADIATOR ASSEMBLY FROM THE TRAILER. REMOVE SWITCH GEAR WIRES AND ENGINE WIRING FROM TERMINAL CONNECTION. UNBOLTED THE UNIT FROM THE FLOOR OF THE ENCLOSURE, SET THE UNIT ON SKATES AND REMOVED ENGINE AND GENERATOR FROM THE TRAILER. REMOVED GENERATOR FROM ENGINE AND LOADED ON TO THE TRUCK TO HAVE IT RECONDITIONED. UPON REPAIRS TO ENGINE AND GENERATOR I INSTALLED GENERATOR ON FRAME AND MOUNTED TO ENGINE. SHIMMED THE GENERATOR AS NEEDED TO MEET MOUNTING SPECS. TORQUED MOUNTING HARDWARE AND INSTALLING SCREEN AND GUARD. HOISTED ASSEMBLY UP AND SET INTO ENCLOSURE. LINED UP MOUNTING HOLES AND BOLTED ENGINE TO FLOOR. REPLACED THE OIL LEVEL REGULATOR. REPLACED THE HOSES GOING TO REGULATOR AND TO SUPPLY TANK. REPAIRED AND INSTALLED FIRE WALL. REPAIRED THE LOWER FRAME WORK, AND PAINTED THE LOWER SCREEN. INSTALLED AIR LINES ON ENGINE. STACKED RADIATOR SECTIONS TOGETHER, SET RADIATORS ON THE FAN FRAME. INSTALLED THE FAN FRAME/RADIATORS IN THE MACHINE. INSTALLED RESERVOIR TANK AND INSTALLED COOLANT TUBES. FILLED WITH WATER TO TEST FOR LEAKS. NONE FOUND I DRAINED WATER OUT OF COOLING SYSTEM. FILLED COOLING SYSTEM WITH ELC. TOPPED OFF FLUIDS AND PULLED TRAILER OUT OF SHOP. HOOK WIRING FROM SWITCH GEAR TO TERMINAL STRIPS ON GENERATOR. LANDED THE REMAINING WIRES FROM THE SWITCH GEAR TO THE GENERATOR. HOOKED UP WIRES TO THE TOP OF THE VOLTAGE REGULATOR. TYRED TO START ENGINE BUT IT WOULD NOT START AS THE BATTERIES WERE DEAD. REPLACED ALL BATTERIES. STARTED ENGINE, CHECKED FOR VOLTAGE(480) AND ENGINE PARAMETERS ON THE EMPC II. ALL SEEMED OK. TIED UP WIRING IN GENERATOR CABINET. INSTALLED PANELS ON THE GENERATOR CABINET. MOUNTED AND PLUMBED THE SLOW FLOW ADD OIL VALVE TO THE FRONT OF THE ENGINE AND WIRED IN AS NECESSARY. HOOKED UP LOAD BANK. RAN TWO HOUR LOAD TEST ON UNIT WITH A 1250 KW LOAD BANK. TIME INCLUDES SET UP, FUELING OF UNIT, WARM UP AND THE LOAD TEST AND COOL DOWN. KNOCKED DOWN THE LOAD BANK AND CLOSED THE UNIT UP. INSTALLED NEW FUEL LINE TO STOP FUEL LEAK. TIGHTENED UP THE AFTER-COOLER LOOP CLAMPS(SMALL COOLANT LEAK) AND TOPPED OFF THE COOLANT. CHECKED THE OIL MAKE UP SYSTEM AND CONFIRMED OPERATION. CONFIRMED THE SAFETY DOOR WAS OPERATIONAL BY REWIRING AS NEEDED. REPAIRED THE DOOR LATCH ASSEMBLY ON THE RIGHT REAR. NOW THE DOOR OPENS AS IT SHOULD. INSTALLED THE MISSING CAPS IN THE GENERATOR PANEL.

Service tech(s): Andrew L. Haveman , James A Muckey

PARTS

48	9X2371	IN HOSE STK
4	8T9398	BOLT
4	6V8182	NUT
8	8T4994	WASHER
50	7K1181	STRAP CABLE
1	2015180	HOSE AS
1	2015178	HOSE AS
1	1525716	HOSE
1	2052922	V-BELT SET
2	1241961	COUPLING

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QUANTITY	ITEM	DESCRIPTION	UNIT PRICE	EXTENSION	
24	1226870	L/M HOSE-IN			
2	8B2664	BUSHING			
2	3B7255	BUSHING			
1	3B6490	COUPLING			
1	1378533	SHIM GP-GEN			
5	8T4835	BOLT			
5	8T4223	WASHER			
2	3E4323	BOLT			
4	8B2377	CAPSCREW			
50	6K0806	TIE			
50	7K1181	STRAP CABLE			
2	1139848	GASKET			
2	5L3773	GASKET			
4	8N8741	HOSE			
10	1F7958	NUT			
10	9S8752	NUT			
6	5P3860	CLAMP HOSE			
2	8N5254	HOSE			
2	1622177	HOSE			
4	5P4869	CLAMP			
2	1131578	ELEMENT AS			
1	1S5772	GASKET			
10	9X7530	SEAL			
2	8C1358	VALVE			
12	1421609	BOLT			
2	1920789	HOSE AS			
2	4R8658	VALVE A			
2	5B9169	PLUG			
2	9Y6893	GASKET			
2	1920838	HOSE AS			
8	1274230	GASKET			
1	2162285	JOINT ASSEMB			
4	2006159	BASE			
4	2017902	CLAMP			
10	5P4888	SCREW			
10	8T4205	WASHER			
650	5P1472	CM-HOSE STK			
2	1241906	COUPLING			
20	1226872	L/M HOSE-IN			
6	5P4869	CLAMP			
2	5P3860	CLAMP HOSE			
1	2132328	CLAMP			
20	5M2894	WASHER			
20	5P1075	WASHER			
20	9M1974	WASHER			
20	5P0537	WASHER			
10	3B4510	LOCKWASHER			
10	8T4122	WASHER			
2	4S0503	JOINT A			
1	2002653	U-BOLT			
2	6V8801	NUT			
8	1421609	BOLT			

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QUANTITY	ITEM	DESCRIPTION		UNIT PRICE	EXTENSION

1	Freight in-parts				
1	Hose labor	LMP New Hose			
1	Freight in-parts				
1	Freight in-parts				
1	OJ Parts	LEVEL SWITCH			
1	OJ Parts	VALVE,ASY			

SEGMENT 1 TOTAL PARTS
TOTAL LABOR (FLAT-RATE)
TOTAL MISC. CHARGES
SEGMENT TOTAL

SEG. 2 / RECONDITION / ENGINE

COMPLAINT: RECONDITION ENGINE BEFORE FAILURE.

REPAIR: DISASSEMBLED ENGINE CLEANED AND INSPECTED COMPONENTS. INSTALLED CRANK IN BLOCK WITH NEW BEARINGS, TORQUED TO SPEC. CLEANED AND INSPECTED THE VALVE LIFTERS, HALF OF THE LIFTERS ARE PITTED ON THE ROLLERS. RESEALED THE OIL FILTER ASSEMBLY. RESEALED THE FUEL FILTER ASSEMBLY. INSTALLED THE REMAN CYLINDER PACKS WITH NEW BEARINGS, TORQUED TO SPEC. CLEANED THE REMAN CYLINDER HEADS AND INSTALLED, TORQUED TO SPEC. USED THE LIFTERS THAT CAME OUT OF THE ENGINE ON RIGHT BANK. INSTALLED THE LEFT BANK WITH REMAN LIFTERS, BOTH INJECTOR AND VALVE LIFTERS. REMOVED THE ENGINE BLOCK FROM THE ROTATOR. INSTALLED THE NEW REAR CRANK GEAR, NEW IDLER GEARS AND NEW CLUSTER GEAR ON THE REAR DRIVE. THE GEARS WERE CHANGED BECAUSE OF RUST/WATER DAMAGE TO THE DRIVE TEETH. INSTALLED THE FLYWHEEL HOUSING, INTAKE ELBOWS ONTO THE CYLINDER HEADS, AND EXHAUST MANIFOLD SECTIONS ON THE HEADS WITH NEW HARDWARE. INSTALLED THE INTAKE MANIFOLD AND TORQUED THE INTAKE ELBOWS TO THE MANIFOLD. INSTALLED THE NEW/USED FRONT CRANK GEAR ON THE CRANKSHAFT, TORQUED BOLTS TO SPEC. INSTALLED THE FRONT COVER, OIL LINES IN THE OIL PAN. RESEALED THE OIL PAN AND SET ENGINE BLOCK ONTO THE OIL PAN. INSTALLED REAR CRANK SEAL AND FLYWHEEL, TORQUED FLYWHEEL BOLTS TO SPEC. INSTALLED BLOCK COVERS. CHECKED THE AFTERCOOLERS AND INSTALLED. INSTALLED THE FRONT IDLER GEARS, BOTH REMAN WATER PUMPS, OIL COOLER AND MISC LINES. ASSEMBLED AND INSTALLED REBUILT CAMSHAFTS. CAMSHAFTS WERE SENT OUT, CHROMED, AND REGROUND. INSTALLED AND TIMED THE CAMSHAFT DRIVE GEARS, TORQUED GEARS TO SPEC. INSTALLED THE FUEL INJECTORS AND CAM COVERS. INSTALLED FRONT DAMPENER, AIR FILTER MOUNTS AND OIL FILTER MOUNT. INSTALLED VALVE COVER RISERS, AND ROCKER ASSEMBLIES. ADJUSTED VALVE LASH AND INJECTOR TIMING. INSTALLED VALVE COVERS AND WATER MANIFOLDS. INSTALLED ENGINE WIRING, NEW SENSORS. INSTALLED NEW COOLANT HEATER HOSES, ONE BALL VALVE, COOLANT HEATERS. SET UP ENGINE TO RUN ON THE FLOOR. RAN ENGINE FOR @ 45 MIN AT IDLE.

Service tech(s): Andrew L. Haveman , James A Muckey

PARTS

1	20R0155	KIT ENG OVER
1.00		Core charge
37.00		Full core credit
1	1969531	BEARING KT-M
18	1011198	BEARING CAMS
1	1275400	BEARING
1	1409597	BEARING-SLEE
1	1275400	BEARING
1	1275400	BEARING
1	1275400	BEARING
1	1275400	BEARING
1	1275400	BEARING
1	1275400	BEARING
1	1409597	BEARING-SLEE

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QUANTITY	ITEM	DESCRIPTION	UNIT PRICE	EXTENSION	
1	1275400	BEARING			
2	1259751	BEARING			
16	1077330	BEARING			
16	10R4343	CYL PACK			
16.00		Core charge			
16.00		Full core credit			
32	7N4782	SPRING			
4	2485513	REGULATOR-TE			
2	1282062	REGULATOR A			
16	7F8698	CAPSCREW			
4	2720760	SEAL-PIP			
4	4W3027	BREATHER A			
2	2176692	HOSE-TEE			
4	0336031	O-RING			
4	5P0597	CLAMP			
2	5P4868	CLAMP			
2	7N7820	BOOT			
1	2W1635	SPRING			
3	1R0726	ELEMENT AS			
4	5P4892	SEAL-O-RING			
4	6V3907	SEAL-O-RING			
1	5D5957	SEAL			
6	6V5048	SEAL-O-RING			
1	6V8001	SEAL			
56	2N2766	LOCK NUT			
8	5P3345	BOLT			
64	5M2894	WASHER			
48	5P2755	BOLT			
64	9L7373	BOLT			
16	2N2765	BOLT			
16	1687800	LOCKNUT			
4	6L3005	CLAMP			
4	7W2297	CLAMP A			
4	9N2038	CLAMP A-TURB			
2	2353546	SEAL-O-RING			
2	6V3348	SEAL			
2	2594598	SEAL-O-RING			
2	5P0840	SEAL-O-RING			
1	8N9885	GASKET			
1	2353546	SEAL-O-RING			
2	2594598	SEAL-O-RING			
1	6V3348	SEAL			
1	10R1072	WATER PUMP			
1.00		Core charge			
1.00		Full core credit			
1	10R9838	AA PUMP GRP F			
1.00		Core charge			
1.00		Full core credit			
1	0R4345	PUMP GRP			
1.00		Core charge			
1.00		Full core credit			
1	3052669	KIT-GASKET-C			

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QUANTITY	ITEM	DESCRIPTION	UNIT PRICE	EXTENSION	
1	2003887	GASKET KIT			
1	2829534	KIT-GASKET-W			
2	0S1573	CAP SCREW			
3	4C6508	CARTRIDGE			
1	4D0449	SEAL-O-RIN			
1	6V7991	SEAL			
3	1A2029	CAPSCREW			
5	4P7581	CLIP			
1	2669682	COMPOUND WHI			
1	8T2998	LUBRICANT			
48	1284845	BOLT AS			
8	6V3348	SEAL			
2	5P8210	SEAL-O-RING			
10	4J0522	SEAL-O-RING			
10	4P8134	CLIP			
1	8C6863	ADAPTER			
1	8C6864	ADAPTER			
1	8C5201	SEAL FACE			
1	8C5200	SEAL FACE			
1	8C6862	ADAPTER			
1	8C5199	SEAL FACE			
1	3679110	ADAPTER DIAG			
1	3E4296	SEAL O RING			
1	1114374	VALVE AS LIN			
16	1326469	HARNESS AS			
10	9X0352	RECEPTACLE A			
5	6V5048	SEAL-O-RING			
2	5D5957	SEAL			
1	6V4589	SEAL O RING			
1	2S5100	VALVE A			
1	9Y8389	GASKET			
1	2147568	SEAL-O RING			
1	8L2786	O RING			
5	1R0756	ELEMENT AS			
1	1623906	PUMP AS-F PR			
1	2H9523	GROMMET			
16	5B7890	PLUG			
32	4J5267	SEAL-O-RING			
4	5F9657	RING			
2	7N3368	GASKET			
2	1A9066	GASKET			
1	2669682	COMPOUND WHI			
1	0R5544	CORE GP-OIL			
1.00		Core charge			
1.00		Full core credit			
2	2473796	GASKET			
2	1092332	SEAL O RING			
2	10R0400	MOTOR GP ELE			
2.00		Core charge			
2.00		Full core credit			
1	1874607	HOSE AS			
1	1874608	HOSE AS			

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QUANTITY	ITEM	DESCRIPTION	UNIT PRICE	EXTENSION	
4	9X7523	SEAL	9.26	37.04	
6	4W0530	RING			
6	8T1919	SEAL			
2	9Y8069	GASKET			
2	9Y6893	GASKET			
1	4F7387	SEAL			
1	3P6061	GASKET			
1	3N6504	HOSE A			
8	1473745	WASHER			
16	1003237	GROMMET			
8	1473745	WASHER			
16	1003237	GROMMET			
1	2V8571	HOSE A			
1	1747088	HOSE AS			
18	1081434	GROMMET			
1	9N4053	SPRING			
1	1145477	PLUNGER			
4	7N6806	SEAL			
2	8L2746	O RING			
1	5N1940	GASKET			
4	1073758	SEAL AFTCLR			
3	5P8940	SEAL O RING			
4	1097411	SEAL-O-RING			
16	6V3917	SEAL O RING			
4	5D5957	SEAL			
16	1226873	L/M HOSE-IN			
2	1241908	COUPLING			
96	1226873	L/M HOSE-IN			
2	1241908	COUPLING			
17	1226873	L/M HOSE-IN			
2	1241909	COUPLING			
82	1226872	L/M HOSE-IN			
2	1241906	COUPLING			
2	8T1703	SEAL-O-RING			
2	6V1454	SEAL O RING			
1	8N6423	COVER			
1	1H8278	SEAL			
3	7X4805	SEAL O RING			
1	7E0467	TUBE AS			
1	7C4716	SCREEN A			
2	0S1588	BOLT			
2	5M2894	WASHER			
4	1K6872	NUT			
8	5P8245	WASHER-HARD			
4	0S1585	CAP SCREW			
2	0S1590	CAP SCREW			
2	8M9024	WASHER			
1	0535065	SLEEVE			
1	3N4905	HOSE A			
30	4P8134	CLIP			
2	39156	LOCTITE 534 HI-TACK STICK 19G			
1	1417116	BELT			

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QUANTITY	ITEM	DESCRIPTION	UNIT PRICE	EXTENSION	
5	0S1590	CAP SCREW			
5	5M2894	WASHER			
1	2S7056	BEARING			
1	2352484	SEAL-LIP TYP			
1	2594598	SEAL-O-RING			
2	5P0840	SEAL-O-RING			
1	9X7371	SEAL O RING			
1	1138432	SEAL GP			
1	2594598	SEAL-O-RING			
1	2986387	SEAL-O-RING			
1	2353546	SEAL-O-RING			
1	6V3348	SEAL			
3	9M4355	DAMPER			
1	9M4849	SEAL O RING			
1	8B0544	SPACER			
1	0L1352	CAP SCREW			
1	5P1075	WASHER			
1	7C4354	CLIP			
1	6V3908	SEAL-O-RING			
1	1113820	RING RETN			
6	1092332	SEAL O RING			
3	3P0655	SEAL-O-RING			
3	5P4892	SEAL-O-RING			
1	5P5846	SEAL O RING			
4	0619456	SEAL			
1	5H6734	SEAL-O-RING			
5	6V5066	SEAL-O-RING			
2	4N1320	GASKET			
1	7N4932	GASKET			
1	7N4945	GASKET			
1	2301072	GASKET			
2	6V1454	SEAL O RING			
2	1A5822	CAPSCREW			
1	9Y8069	GASKET			
1	1H9696	RING			
1	0L1143	CAP SCREW			
5	6J2680	SEAL O RING			
1	8N9885	GASKET			
16	1179315	SEAL			
16	2720758	SEAL-PIP			
4	2W0752	GASKET			
1	3V2431	WASHER			
1	1A2029	CAPSCREW			
1	6V1454	SEAL O RING			
1	5B4399	RING			
6	8T1919	SEAL			
2	2616847	ADAPTER			
2	2616848	SENSOR GP-TE			
4	1619926	SENSOR GP-PR			
1	1946725	SENSOR GP-PR			
1	1946725	SENSOR GP-PR			
1	1946725	SENSOR GP-PR			

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QUANTITY	ITEM	DESCRIPTION	UNIT PRICE	EXTENSION	
1	1946725	SENSOR GP-PR			
1	1022240	SENSOR GP			
1	1946724	SENSOR GP-PR			
1	3181181	SENSOR GP			
1	1519265	HARNESS AS			
1	1519266	HARNESS AS			
1	2735041	SENSOR GP-SP			
1	7L4447	CAP A			
4	1092332	SEAL O RING			
4	0T0065	CAP SCREW			
3	5P4892	SEAL-O-RING			
2	0S1571	CAP SCREW			
1	8T2998	LUBRICANT			
1	1003880	PUSHROD-VAL			
440	3192260Q	10W-30 DEO ULS Quarts			
15	1A9579	CAPSCREW			
15	9M1974	WASHER			
20	0S1618	CAP SCREW			
20	9M1974	WASHER			
10	0S1594	CAP SCREW			
10	0S1588	BOLT			
25	1003237	GROMMET			
4	1843229	HOSE AS			
8	5P9890	SEAL			
4	1S4810	GASKET			
4	1S6595	GASKET			
2	0S1619	CAP SCREW			
2	0T0573	CAP SCREW			
1	9N2038	CLAMP A-TURB			
4	1473745	WASHER			
6	1003237	GROMMET			
2	2W0752	GASKET			
2	1228856	GASKET			
2	5P4892	SEAL-O-RING			
1	1022240	SENSOR GP			
2	0S1619	CAP SCREW			
1	9Y0047	CLAMP			
2	8N3639	RETAINER			
1	2S5100	VALVE A			
4	4W3034	CLAMP			
50	7K1181	STRAP CABLE			
2	1A1460	CAPSCREW			
2	7B3235	CAP SCREW			
1	10R8877	ALTERNATOR G			
1.00		Core charge			
1.00		Full core credit			
1	1113684	HOSE AS			
50	6K0806	TIE			
1	1979090	BRACKET			
2	0S1591	CAP SCREW			
2	4W9149	SPACER			
1	1712210	BREAKER AS-C			

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SD3534955	10/16/2013	GR-WO-3053885	05/02/2013		10 OF 15
QUANTITY	ITEM	DESCRIPTION		UNIT PRICE	EXTENSION

1	6T3643	CIRCUIT BRKR			
2	8N0869	COVER			
2	6T0465	COVER			
2	7N5274	COVER			
1	8C1358	VALVE			
1	2P2772	COVER			
15	2N2258	RIVET			
3	5P2675	BOLT			
3	8T4205	WASHER			
3	2W8604	WASHER			
3	6V8185	NUT			
1	9S4182	PLUG			
4	9X3808	COUPLING			
4	0532295	FITTING			
10	9S8750	NUT			
10	5S0003	NUT			
1	54531	LOCTITE 545 HYDR SLNT 50ML			
2	1619926	SENSOR GP-PR			
2	6I2933	INDICATOR			
1	7D4903	ADAPTER			
1	0007244	ELBOW			
1	0026453	ELBOW			
1	5P2369	CLIP			
1	8R8088	SPACER			
1	0S1590	CAP SCREW			
1	7C7678	TUBE A			
1	59330	LOCTITE 593 SIL SEALER 80ML			

MISCELLANEOUS

1	Freight in-parts		
1	Freight in-parts		
1	Hose labor		
1	Hose labor		
1	Hose labor		
1	Hose labor		
1	Freight in-parts		
1	Freight in-parts		
1	Freight in-parts		
1	Freight in-parts		
1	Freight in-parts		
1	Freight in-parts		
1	Freight in-parts		
1	Freight in-parts		
1	Freight in-parts		
1	Freight in-parts		

SEGMENT 2 TOTAL PARTS
TOTAL LABOR (FLAT-RATE)
TOTAL MISC. CHARGES
SEGMENT TOTAL

SEG. 3 / RECON BEFORE FAILURE / GENERATOR

DISASSEMBLE AND INSPECT, CLEAN AND WASH STATOR. INSPECT SHAFT BEARING FIT. BORE AND BUSH O.P.E.

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BEARING CARTRIDGE. REPLACE CARTRIDGE BEARING FIT O.P.E. REPLACE BEARINGS WITH NEW O.P.E. 6326. REPLACE LIP SEAL 020459, ASSEMBLE, TEST AND PAINT.

SEGMENT 3 TOTAL MISC. CHARGES (FLAT-RATE)
 SEGMENT TOTAL

SEG. 4 / ITEMS NOT INCL. FLAT RATE / ENGINE

COMPLAINT: MISCELLANEOUS

REPAIR: REPLACED ONE OF THE WATER MANIFOLD SECTIONS, THERE WAS A CRACK IN THE THREADS WHERE THE SECTIONS BOLT TOGETHER. REPLACED ONE OF THE INTAKE ELBOWS, THERE WAS A CRACK AROUND ONE OF THE BOLT HOLES. REPLACED THE REAR GEARS ON THE ENGINE, THEY WERE DAMAGED DUE TO RUST. DRILLED OUT THE THREADED HOLES IN THE CYLINDER HEAD BASES, THE HOLES WERE STRIPED. THE THREADED HOLES IN THE VALVE COVER BASES ARE ALL STRIPPED OUT. DRILLING OUT THE HOLES AND INSTALLED KEEN INSERTS. REPLACED SUPPORTS FOR THE FUEL FILTER HOUSING, THE SUPPORTS WERE CRACKED. REPLACED A SUPPORT FOR THE FUEL LINES THAT WAS CRACKED. REPLACED THE ENGINE BATTERIES, THEY WERE BELOW MINIMUM VOLTAGE.

Service tech(s): Andrew L. Haveman

PARTS

1	1011370	GEAR
1	1011369	GEAR
2	1011364	GEAR
1	1143372	GEAR
2	9U5058	REFILL KIT
1	9U5057	REPAIR KIT
1	9U5058	REFILL KIT
1	9U5058	REFILL KIT
1	1350175	BRACKET
2	7E6334	PLATE
1	1339313	PLATE
1	10R3139	LIFTER AS
1.00		Core charge
1.00		Full core credit
7	10R3139	LIFTER AS
7.00		Core charge
7.00		Full core credit
16	20R1626	LIFTER AS
16.00		Core charge
16.00		Full core credit
1	7C7909	ELBOW
1	1541616	MANIFOLD
1	2w2895	GEAR
1	1333702	COVER
1	1535700	BATTERY
3	1535700	BATTERY

MISCELLANEOUS

1	Freight in-parts	
1	Freight in-parts	
4	OJ Labor	RECON 3516 CAM
1	OJ Labor	BORE TOW GEARS
1	OJ Freight	freight in
1	OJ Freight	freight out



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SEGMENT 4 TOTAL PARTS
 TOTAL LABOR (FLAT-RATE)
 TOTAL MISC. CHARGES
 SEGMENT TOTAL

SEG. 5 / RECONDITION / FAN DRIVE

COMPLAINT: RECON FAN DRIVE REBEARING FAN DRIVE
 REPAIR: REMOVED THE FAN DRIVE ASSEMBLY FROM THE FRAME. REMOVED THE UPPER BEARING AND INSTALLED A NEW BEARING. REMOVED THE TAPPER LOCK PULLEY FROM THE SHAFT. HAD TO CUT THE LOWER BEARING FROM THE SHAFT TO REMOVE. CLEANED COMPONENTS AND INSTALLED A NEW BEARING, INSTALLED THE PULLEY.
 Service tech(s): Andrew L. Haveman

PARTS

2	1239328	BEARING
4	1256289	COLLAR AS

MISCELLANEOUS

1	Freight in-parts
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SEGMENT 5 TOTAL PARTS
 TOTAL LABOR (FLAT-RATE)
 TOTAL MISC. CHARGES
 SEGMENT TOTAL

SEG. 6 / PAINT / TRAILER

COMPLAINT: SANDBLAST AND PAINT TRAILER
 REPAIR: REMOVED DECALS AND APPLIED CARDBOARD, SANDBLASTED. PRIMED AND PAINTED FRAME AND FLOOR INSIDE. MASKED WHEEL HUBS AND TIRES AND PAINTED. MASKED FLOOR INSIDE TRAILER, FRAME UNDERNEATH, BUMPER AND FRONT KING PIN AREA. BLEW OFF TRAILER. PRIMED SIDES, AND PAINTED. PREPPED AND PAINTED TUBES FOR ENGINE. PREPPED ENGINE FOR PAINT PAINTED ENGINE. PAINTED FAN/RADIATOR FRAME. PREPPED 2 DOOR, COOLANT TANK AND OIL TANK. BLEW OFF, PRIMED AND PAINTED. PREPPED MASKED AND PAINTED AIR FILTER HOUSINGS. INSTALLED PLATE ON BACK DOOR, PAINTED PLATE. INSTALLED DECALS ON THE TRAILER. SANDED, PRIMED AND PAINTED PANEL FOR FRONT OF TRAILER. INSTALLED FRONT DECAL. INSTALLED SHEET ON FRONT OF TRAILER. TOUCHED UP PAINT.
 Service tech(s): Rodney C McMillian

PARTS

1	5P1175	FILM
1	2503444	FILM-ENG ROT
4	2253226	FILM-WARN HA
2	2253227	FILM-WARN HA
2	2985631	PLATE-CAT
2	2017725	FILM-ELEC PW
3	1083208	FILM-CAUTION
2	1347258	FILM
1	1427544	FILM WARNING
4	1427554	FILM WARNING
4	1440876	FILM INFO
2	2227945	FILM-WARN SH
3	2026688	FILM-CAT
1	3033433	FILM-CATERPI
12	4C4200	PAINT-YELLOW

Michigan



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1	ID PLATE	PLATE			
6	1U6708	TAPE 2			
2	1U6708	TAPE 2			
3	2256502	PAINT-BLK			
1	4C4197	PRIMER YELLO			
4	2435450	PAINT WHITE			
2	2435450	PAINT WHITE			
1	1148821	PLATE ELEC			
2	1117462	FILM WARNING			
4	4C4200	PAINT-YELLOW			
3	4C4205	PRIMER YELLO			
3	4C4200	PAINT-YELLOW			
1	4P6410	PLATE-INFO			
1	9Y4296	FILM			
1	1427542	FILM WARN			
1	7W4445	FILM			
1	1427546	FILM-WARNING			
1	1427540	FILM WARNING			
1	1117462	FILM WARNING			
1	1106608	FILM NOTICE			
1	4C5843	PAINT BLACK			
3	4C4200	PAINT-YELLOW			
3	4C4198	PAINT BLACK			
1	1402576	PAINT-MATHOR			

SEGMENT 6 SEGMENT TOTAL (FLAT-RATE)

SEG. 7 / REPAIR / ENGINE COOLANT HEATER

COMPLAINT: ENGINE COOLANT HEATER.

REPAIR: INSTALLED A NEW THERMOSTAT IN THE LEFT SIDE WATER JACKET HEATER. REPLACED THE GROUND WIRES WITH NEW WIRES FROM THE THERMOSTAT TO THE CONTROL PANEL. REPLACED THE GROUND WIRE FOR THE RIGHT SIDE HEATER, REPLACED THE BLACK WIRE GOING TO THE HEATER. REPLACED THE CONDUIT AS NEEDED.

Service tech(s): Andrew L. Haveman

PARTS

2	1276260	THERMOSTAT
2	0340728	CLIP
2	7K3377	PIPE
2	0S1619	CAP SCREW
2	9S8752	NUT
3	6V5819	M CONDUIT ST

MISCELLANEOUS

1	OJ Parts	switch
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SEGMENT 7 TOTAL PARTS
TOTAL LABOR (FLAT-RATE)
TOTAL MISC. CHARGES
SEGMENT TOTAL

SEG. 8 / REPAIR / RADIATOR



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DISSASSEMBLE FOUR SECTION RADIATOR, CLEAN HEADERS AND ROD OUT EACH SECTION. SANDBLAST ALL TANKS AND RAILS. REPAINT CAT YELLOW. ASSEMBLE AND RETEST.

SEGMENT 8 TOTAL MISC. CHARGES (FLAT-RATE)
 SEGMENT TOTAL

SEG. 9 / REPAIR / GENERATOR SET ENCLOSURE

COMPLAINT: GENSET ENCLOSURE

REPAIR: REPAIRED AND REPLACED THE SCREENS ON THE RADIATOR VENTS. CUT OUT THE OLD SCREEN, THE SCREEN WAS RUSTED AND ROTTED THROUGH. REPLACED SCREEN AND WELDED INTO PLACE. PAINTED AND INSTALLED THE SCREEN. REPLACED THE SCREEN ON THE UPPER RADIATOR SCREEN ABOVE THE RADIATOR. REPLACED ACCESS DOOR FOR THE COOLANT FILL. CLEANED UP AND PAINTED THE SIDE VENTS, REMOVED THE DAMAGED SCREEN. REPAIRED THE SCREEN ON THE RIGHT FRONT VENT LOUVER. INSTALLED NEW DOOR LATCH ON THE FAN ACCESS DOOR, AS IT WOULD NOT STAY LATCHED DURING NORMAL OPERATION OR TRANSPORT. REMOVED AND INSTALLED THE REAR THREE DIAMOND PLATE SECTIONS ON THE FLOOR. THE HOLD DOWN BOLTS HAD BROKE OFF AND THE METAL SHEETS WERE WARPED UP OUT OF PLACE. CLEANED THE DECK UNDER THE PLATES AND SECURED THE PLATES TO THE TRAILER DECK.

Service tech(s): Andrew L. Haveman

PARTS

50	8T0023	BOLT
1	2085859	DOOR AS
3	2W8603	MOUNT
3	6V5818	M-CONDUIT-
5	1093038	WIRE END
5	1093039	WIRE END
5	1204510	END-WIRE
2	8N0869	COVER
1	40002R	MODEL 40 STT LAMP KIT
1	40002R	MODEL 40 STT LAMP KIT
1	1352543	BOOT
2	4C4611	CLEANER
1	15011	MODEL 15 LICENSE PLATE LITE KIT GRAY
75	9M5733	RIVET
1	1569247	LATCH
2	4C4611	CLEANER
25	9M5733	RIVET
25	9M5733	RIVET
50	8T0023	BOLT
1	2435125	LATCH AS

MISCELLANEOUS

1	Freight in-parts	
1	Freight in-parts	
1	Outside job parts	Hardware - Tractor Suppl
1	Freight in-parts	

SEGMENT 9 TOTAL PARTS
 TOTAL LABOR (FLAT-RATE)
 TOTAL MISC. CHARGES
 SEGMENT TOTAL



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SEG. 10 / REPAIR / CAB DOOR

COMPLAINT: TRAILER DOORS.

REPAIR: REPLACED THE REAR LEFT AND REAR RIGHT ACCESS DOOR. THE DOORS WERE REMADE BY TRAILER VENDOR. INSTALLED NEW DOORS ON TRAILER, ADJUSTED FOR PROPER FIT.

Service tech(s): Andrew L. Haveman

PARTS

20	4M5282	BOLT
20	2D6235	NUT
20	8T4205	WASHER
1	1562579	LATCH

MISCELLANEOUS

1	OJ Parts	build new side door for tr
1	OJ Parts	build new side door for tr

SEGMENT 10 TOTAL PARTS
 TOTAL LABOR (FLAT-RATE)
 TOTAL MISC. CHARGES
 SEGMENT TOTAL

SEG. 19 / INSTALL / FUEL

KEVIN D HAD FUEL TRUCK COME OUT AND FUEL.

PARTS

300	0030	OFF-ROAD DIESEL
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SEGMENT 19 TOTAL PARTS
 SEGMENT TOTAL

SEG. 20 / MISCELLANEOUS

OPC INSURANCE
 36 MONTHS OR 2000 HOURS
 \$500.00 DEDUCTIBLE PER REPAIR

MISCELLANEOUS

1	OPT (RER-N) coverage	OPC
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SEGMENT 20 TOTAL MISC. CHARGES
 SEGMENT TOTAL

SUBTOTAL BEFORE TAXES

Environmental charges

PAYMENT TERMS

Pay in full 30 days after invoice date. A monthly Finance Charge of 1.75% (21% APR) will be added on all past due amounts.

CREDIT AMOUNT	
DO NOT PAY	
PAY THIS AMOUNT	