

**SERVICE INVOICE**INVOICE NUMBER: **WO170029851**  
Invoice Date: 09-22-15**Due \$25,544.07**

Make	AA
Model	C-15
Serial #	0NXS08459
Equip No	57
Machine ID	
Meter Reading	923158.0
PSO/WO	TE17328

Customer #	PO #	Doc Date	Salesman	Division	Store	Terms
0001960	CK #25335 APP #3085	08-19-15	998	T	17	4

Quantity	Item	Description	Unit Price	Extension
4	1U-5517	DISC	S	
24	3S-2093	TIE	S	
1	5H-1504	WASHER	S	
153	5P-0765	CM-HOSE STK	N	
1	6I-4421	PLATE SPACER	N	
12	6K-0806	TIE	S	
2	7N-1961	BOLT	S	
1	7X-2539	BOLT	N	
6	8S-9191	BOLT	S	
2	113-5304	SEAL	N	
7	124-1855	BOLT 12PT	S	
2	136-4877	SPLICE WIRE	S	
11	238-8648	CAT ELC 50/50 1GL	S	
10	2913866X	15W40 DEO(ULS) 1GLS		
1	5546-8	THREAD KIT	N	

TOTAL PARTS SEG. 01  
SEGMENT 01 TOTAL F/R LE

OVERHAUL ENGINE  
CAT CERTIFIED ENGINE REBUI

CUSTOMER COMPLAINT:  
CHECK FOR OIL LEAK  
REPAIR PROCESS COMMENTS:  
INSPECT OIL LEAK AT FRONT OF ENGINE. APPEARS TO BE  
COMING FROM CAM THRUST PLATE SEAL OR OIL PLUG ON  
FRONT OF HEAD. DIFFICULT TO LOCATE. LEAK IS COMING  
FROM BEHIND FRONT COVER AREA IN FRONT OF  
HEAD. ADVISE OF FINDINGS. GOT OKAY TO TEAR DOWN  
FURTHER TO LOCATE SOURCE OF LEAK. STEAM OFF ENGINE  
AND UNDER HOOD BEST AS POSSIBLE. HOOK UP ET AND  
CAPTURE ALL ECM INFO. SEND IT TO SIMS. RUN CYLINDER  
CUTOUT TEST ON UNIT. SHOWING #3 WEAK ON  
TEST. INJECTOR TEST SHOWED ALL OKAY. PULL BOTH OIL  
SOAKED V-BELTS, PEANUT COVER. HAD TO GRIND OUT 2  
BOLTS FOR REMOVAL. PIN TIME ENGINE, PULL CAM GEAR

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**Terms of Payment:** Unless specific terms of payment are stated above, which shall be the governing terms hereof, this invoice shall otherwise be due and payable in full 30 days from the invoice date. Performance under this invoice along with jurisdiction and venue shall be in Tulsa County, Oklahoma. Return parts must be accompanied by the packing list or this invoice. Refer to packing list for parts return policy. ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE. Acceptance of goods or services constitutes acceptance of the Warren Cat Standard Terms and Conditions which are incorporated by reference and available at <http://www.warrencat.com/terms-conditions> or upon request.

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<p>AND THRUST PLATE.INSPECT AND FOUND OIL GALLEY                      PLUG INTACT.SUSPECTING FRONT STRUCTURE                      LEAKING.ADVISE OF FINDINGS.WAS TOLD THAT UNIT                      USES 1 GAL OIL EVERY 200 MILES.HAS CONDENSATE AND                      OIL DRIPPING FROM BLOWBY TUBE.RECCOMEND                      OVERHAULING AND RESEALING FRONT STRUCTURE.GOT                      APPROVAL FOR REPAIRS.DRAIN OIL AND COOLANT.REMOVE                      FAN AND SHROUD.SUPPORT HOCH AND LEAN RADIATOR                      FORWARD.PULL OIL PAN,RAISE AND SUPPORT FRONT OF                      ENGINE.REMOVE ALL NEEDED ACC'S AND PULL FRONT                      COVER.PULL GEAR TRAIN AND REMOVED BACK                      PLATE.CONFIRMED OIL LEAKING AT SEAL ON TOP FRONT                      OF BLOCK AT OIL RIFLE.STEAM CLEAN ALL RELATED                      PARTS FOR REASSEMBLY.</p>				
1	10R-2112	CORE AS OIL	N	
1		CORE DEPOSIT	N	
1-		CORE RETURN	N	
1	10R-9925	KIT ENG OVER	N	
1		CORE DEPOSIT	N	
1-		CORE RETURN	N	
1	220-1206	HOSE AS	S	
1	321-7384	HOSE AS	S	
1	348-3681	KIT-GASKET-F	N	
		TOTAL PARTS	SEG. 01	
		TOTAL LABOR	SEG. 01	
2.00-		FREE 3 YR OPT		
1.00		4 YR OPT COVERAG		
		TOTAL MISC CHGS	SEG. 01	
		SEGMENT 02 TOTAL		
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		SUPPLIES FEE		
		ENVIROMENTAL FEE		
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OKLAHOMA STATE TAX  
TULSA CITY/TULSA TAX  
TULSA COUNTY TAX

\* \* \* C O D \* \* \*  
\* \* \* INVOICE COPY \* \* \*

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Parts	
Labor	
Misc.	
Tax	

**TOTAL \$25,544.07**

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### TROUBLESHOOT ENGINE

#### CUSTOMER COMPLAINT:

CHECK FOR COOLANT LEAK.

#### REPAIR PROCESS COMMENTS:

BRING IN SHOP AND CHECK OVER UNIT. LOW COOLANT  
LIGHT ON START UP. SURGE TALK ALMOST EMPTY. TURN ON  
HEATER VALVES, HOOK UP AND PRESSURE TEST COOLING  
SYSTEM. FOUND MAIN LEAK ON HEATER HOSE THAT WAS  
LAYING AGAINST PIPE BEHIND TURBO. PER DAWN, OKAY  
TO REPIAR COOLANT LEAK. DRAIN VERY WEAK AND WATER  
DELUTED COOLANT. HEATER SHUT-OFF VALVE WONT  
CLOSE. REMOVE, REROUTE, AND HOOK UP HEATER HOSE. ZIP  
TIE WHERE NEEDED. FILL WITH NEW COOLANT. START  
UP, RUN AND CHECK OPERATION. NO MORE LEAKS AT THIS  
TIME. GOT APPROVAL FOR PLATINUM O/H. STARTED  
TEARING DOWN FOR REBUILD. TEAR DOWN COMPLETE, CLEAN  
AND INSPECT ALL PARTS PER GUIDELINES. CHECK  
CRANKSHAFT, CAM, ALL GEARS AND RELATED  
COMPONENTS. CLEAN BLOCK DECK, ALL BOLTS HOLES AND  
CHECK COUNTER BORES. REPLACE MAIN BEARINGS AND  
THRUST. INSTALL CYLINDER PACKS, REPLACED SPACER  
PLATE DUE TO EROSION. SET UP CHECK AND RECORD  
LINER PROJECTION. INSTALL AND TORQUE ALL HEAD  
BOLTS. RECORD TRIM FILES, INSTALL AND TORQUE ALL  
INJECTORS. SET ENGINE TIMING AND BUILD TOP END. SET  
OVERHEAD. BUILD FRONT, AND BOTH SIDES. REMOVE, SET UP  
AND DRILL OUT BROKEN BOLT FROM A/C MOUNTING  
BRACKET. DRILL AND INSTALL HELI-COIL. REPLACE  
CUSTOMER SUPPLIED ALT; AND BELTS. SECURE OIL  
PAN. CHANGE OIL AND FUEL FILTERS. FILL WITH COOLANT  
AND OIL. HOOK UP BATTERIES. UNIT WONT START. UNHOOK  
BATTERIES AND CHERCK STARTER. BOTH B+ AND GROUNDS  
WERE LOOSE. TIGHTEN AS NEEDED. HOOK UP  
BATTERIES, PRIME AND START. RUN UNIT AND CHECK  
OPERATION. ALL OKAY. SECURE BELLY BAR AND SET HOOD  
GUIDES. SECURE L/F STEER WHEEL, AND COVERS. CHECK  
FLUIDS AND ROAD TEST. ALL CHECKS AND TEST WERE  
OKAY.

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