

# SERVICE INVOICE

INVOICE NUMBER:

Invoice Date:

06-30-19

Due

\$38,985.64

Make

AA

Model

D5NXL

Serial #

\*CAT0005NKG02243

Equip No

Machine ID

C23337

Meter Reading

10931.0

PSQ/WD

Customer #	PO #	Doc Date	Salesman	Division	Store	Terms
		05-13-19				

Quantity	Item	Description	Unit Price	Extension
1	9Y-9236	BODY AS	S	
1	111-8160	CAP RAD	S	
519	221-8310	CM BULK SEAL	S	
1	233-2115	RADIATOR AS.	N	
90	233-6832	CM BULK SEAL	N	
		TOTAL PARTS	SEG. 05	
			F/R LBR	
1.00		2332115		
		TOTAL MISC CHGS	SEG. 05	
		SEGMENT 05 TOTAL		4348.96 T
-----				
REPLACE WITH CAT REMAN ENGINE				
CUSTOMER COMPLAINT:				
REPLACE WITH CAT REMAN ENGINE				
REPAIR PROCESS COMMENTS:				
REMOVED AND REPLACED WITH CAT REMAN ENGINE				
1	0R-8279	ALTERNATR GP	S	
1		CORE DEPOSIT	S	
1-		PARTIAL CRDT	S	
1	10R-0395	MOTOR GP ELE	S	
1	20R-1905	ENG AR	N	
		TOTAL PARTS	SEG. 06	
			F/R LBR	
		SEGMENT 06 TOTAL		19516.47 T
-----				
ADJUST TRACK ASSEMBLY				
CUSTOMER COMPLAINT:				
ADJUST TRACKS				

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REPAIR PROCESS COMMENTS:  
ADJUSTED TRACKS TO CAT SPECS  
#4999

TOTAL LABOR SEG. 07

SEGMENT 07 TOTAL 157.95 T

## TROUBLESHOOT STARTING SYSTEM

CUSTOMER COMPLAINT:  
TROUBLE SHOOT CHARGING SYSTEM  
REPAIR PROCESS COMMENTS:  
WENT TO LOAD TEST THE BATTERY AND FOUND A BIG HOLE  
IN THE SIDE OF THE BATTERY  
REMOVED AND REPLACED WITH NEW BATTERY  
#4999

1 3T-5760 12V BATTERY-31 S

TOTAL PARTS SEG. 08

SEGMENT 08 TOTAL F/R LBR 437.48 T

## CALIBRATE TRANSMISSION

CUSTOMER COMPLAINT:  
CALIBRATE TRANSMISSION  
REPAIR PROCESS COMMENTS:  
MOVED MACHINE OUTSIDE AND GOT TO TEMP  
PERFORMED TRANSMISSION FILL CALIBRATION  
PASSED  
#4999

SEGMENT 09 TOTAL F/R LBR

270.00 T

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## LUBRICATE MACHINE

CUSTOMER COMPLAINT:  
GREASE MACHINE

REPAIR PROCESS COMMENTS:  
GREASED MACHINE FRONT TO BACK  
#4999

TOTAL LABOR SEG. 10

SEGMENT 10 TOTAL 229.50 T

## FILL HYDRAULIC OIL

CUSTOMER COMPLAINT:  
FILL HYDRAULIC TANK

REPAIR PROCESS COMMENTS:  
FILLED THE HYDRAULIC TANK  
#4999

TOTAL LABOR SEG. 11

SEGMENT 11 TOTAL 135.00 T

## REPLACE WITH NEW WIRING HARNESS (ABC) ENGINE

FOUND DAMAGED PLACES IN WIRING HARNESS. ASKED  
CUSTOMER TO ELECT EITHER TO REPAIR OR REPLACE.  
CUSTOMER ELECTED TO REPLACE. REMOVED OLD HARNESS

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Quantity	Item	Description	Unit Price	Extension
INSTALLED NEW HARNESS ALONG WITH SECURING DEVICES.				
1	265-2733	HARNESS AS N	782.36	
TOTAL PARTS			SEG. 12	
SEGMENT 12 TOTAL			F/R LBR	1322.36 T
-----				
FLUSH COOLANT HOSE/LINES				
TEST RAN AFTER INSTALLING NEW ENGINE. GOT UP TO OPERATING TEMP. NOTICED THAT THE NEW COOLANT LOOKED POOR. POCKETS OF OLD CONTAMINATED COOLANT HAD CIRCULATED IN TO THE NEW. DRAINED COOLANT. FILLED WITH WATER AND CASCADE. RAN UP TO TEMP TO CIRCULATE DETERGENT. DRAINED DETERGENT AND THEN REPEATED THE PROCESS TWO MORE TIMES WITH WATER UNTIL IT DRAINED CLEAN AND CLEAR. FILLED SYSTEM WITH FRESH COOLANT.				
1	111-8160	CAP RAD S		
1	COOL1	COOLNT LVL 1 S		
1	CASCADE10	CASCADE ST10 S		
TOTAL PARTS			SEG. 13	
SEGMENT 13 TOTAL			F/R LBR	444.05 T
-----				
TRANSPORT MACHINE				
2.00		TULSA HAULTRK		
TOTAL MISC CHGS			SEG. 50	
SEGMENT 50 TOTAL				530.00 T

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Quantity	Item	Description	Unit Price	Extension		

-----  
ENVIRO. FEEOKLAHOMA STATE TAX  
TULSA CITY/TULSA TAX  
TULSA COUNTY TAX  
\* \* \* INVOICE COPY \* \* \*Go Paperless. Receive statements and Invoices online 24/7. Register at [www.warrenca.com/gopaperless](http://www.warrenca.com/gopaperless)

Parts

Labor

Misc.

Tax

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Customer #	PO #	Doc Date	Salesman	Division	Store	Terms
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Quantity	Item	Description	Unit Price	Extension
		CLEAN & INSPECT MACHINE		
1.00		MACH INSP LVL 1	F/R LBR	
		TOTAL MISC CHGS	SEG. 00	
		SEGMENT 00 TOTAL		337.50 T

## TROUBLESHOOT ENGINE COOLING SYSTEM

### CUSTOMER COMPLAINT:

TROUBLE SHOOT COOLANT SYSTEM

### CAUSE OF FAILURE:

COOLANT CONTAMINATED BY DIESEL FUEL

### RESULTANT DAMAGE:

ENGINE, RADIATOR

### REPAIR PROCESS COMMENTS:

UPON WALK AROUND INSPECTION NOTED THAT RADIATOR CAP WAS MISSING AND RADIATOR WAS LOW ON COOLANT. WHILE TOPPING OFF COOLANT, NOTICED THE SMELL OF FUEL COMING FROM THE RADIATOR. TOPPED OFF COOLANT AND STARTED MACHINE FOR TESTING. MACHINE WAS VERY DIFFICULT TO START. DROVE MACHINE TO WASH BAY IT BEGAN TO OVER HEAT QUICKLY. BROUGHT MACHINE BACK TO SHOP. TOOK SAMPLES OF FUEL AND COOLANT TO SEND OFF TO BE CHECKED FOR CROSS CONTAMINATION. REFERRED TO SIS TO LOOK FOR POSSIBILITIES OF CROSS CONTAMINATION. FOUND THAT FUEL CAN BE TRANSFERRED INTO COOLANT FROM LEAKY SLEEVES AT INJECTORS.

1	9X-7384	SEAL-O-RING	S
2	9X-7385	SEAL	S
1	111-8160	CAP RAD	S
1	169-7372	BOTTLE A.	S
2	238-8648	CAT ELC 50/50 1GL	S
1	238-8649	CAT ELC	S
1	COOL1	COOLNT LVL 1	S

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Machine ID

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Meter Reading

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PSQWO

TU91488

Customer #	PO #	Doc Date	Salesman	Division	Store	Terms
		05-13-19				

Quantity	Item	Description	Unit Price	Extension
2	FS1	FUEL SAMPLE	S	
1	OILSMPL1	SAMPLE W/MAILER	S	
		TOTAL PARTS	SEG. 01	
			F/R LBR	
1.00		SUPPLIES		
		TOTAL MISC CHGS	SEG. 01	
		SEGMENT 01 TOTAL		1205.66 T
-----				
REMOVE & INSTALL AFTERCOOLER				
CUSTOMER COMPLAINT:				
REMOVED AND INSTALL AFTER COOLER				
REPAIR PROCESS COMMENTS:				
REMOVED COOLING PACKAGE				
MARKED AND CAPPED ALL OPENINGS				
REMOVED AFTER COOLER AND SET ASIDE				
INSTALLED NEW RADIATOR				
CLEANED AIR COOLER AND OIL COOLER AND INSTALLED				
BACK INTO THE COOLING PACKAGE.				
#4999				
2	136-0812	GASKET	S	
1	169-7372	BOTTLE A.	S	
1	238-8649	CAT ELC	S	
		TOTAL PARTS	SEG. 02	
			F/R LBR	
		SEGMENT 02 TOTAL		434.46 T
-----				
REMOVE & INSTALL RADIATOR				
CUSTOMER COMPLAINT:				

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Quantity	Item	Description	Unit Price	Extension		

REMOVED AND INSTALL COOLING PACKAGE

## REPAIR PROCESS COMMENTS:

REMOVED THE HOOD  
 REMOVED THE ROPS  
 REMOVED ALL GUARDS AND PANNLES  
 REMOVED FAN GUARD  
 REMOVED ALL LINES CONNECTED TO THE COOLING PACKAGE  
 AND MARKED AND PLUGGED  
 REMOVED BOLTS IN THE BOTTOM OF THE COOLING  
 PACKAGE  
 REMOVED THE RADIATOR COOLING PACKAGE FROM THE  
 MACHINE WITH CRANE

INSTALLED NEW RADIATOR TO THE COOLING PACKAGE  
 INSTALLED ALL GUARDS AND ALL NEW RUBBERS  
 POSITIONED COOLING PACKAGE ON THE FRAME OF THE  
 MACHINE  
 INSTALLED BOLTS AND TORQUED TO CAT SPECS  
 INSTALLED ALL NEW LINES/HOSES  
 INSTALLED NEW RADIATOR CAP  
 FILLED THE RADIATOR WITH FLUID  
 INSTALLED THE FAN GUARD.

#4999

1	8T-4984	CLAMP	S
3	8T-6703	CLAMP	S
1	233-2124	HOSE	N
1	233-2125	HOSE	N
4	233-6825	MOUNT AS.	N
12	238-8648	CAT ELC 50/50 1GL	S

TOTAL PARTS

SEG. 03

SEGMENT 03 TOTAL

F/R LBR

1878.85 T



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Quantity	Item	Description	Unit Price	Extension
-----				
		REMOVE & INSTALL ENGINE		
		CUSTOMER COMPLAINT:		
		REMOVED AND INSTALL ENGINE		
		REPAIR PROCESS COMMENTS:		
		REMOVED THE HOOD		
		REMOVED THE ROPS		
		REMOVED ALL GUARDS AND PANNLES		
		REMOVED FAN GUARD		
		REMOVED ALL LINES CONNECTED TO THE COOLING PACKAGE		
		AND MARKED AND PLUGGED		
		REMOVED BOLTS IN THE BOTTOM OF THE COOLING PACKAGE		
		REMOVED THE RADIATOR COOLING PACKAGE FROM THE MACHINE WITH CRANE		
		REMOVED ALL ELECTRICAL, FUEL, AND AIR LINES		
		MARKED CAPPED AND PLUGGED ALL OPENINGS		
		REMOVED BELLY PANS		
		REMOVED FLOOR PLATE		
		REMOVED CONNECTING BOLTS FROM TOURQUE CONVERTER AFTER SUPPORTING WITH CHAIN		
		REMOVED ENGINE OIL FILTER FOR CLEARANCE		
		REMOVED ENGINE HOLD DOM BOLTS		
		USED CRANE AND COME ALONG IN ORDER TO REMOVE ENGINE		
		SWAPPED ALL EXISTING PARTS FROM OLD ENGINE TO NEW ENGINE THAT WAS NO QUOTED		
		INSTALLED ALTERNATOR NEW		
		INSTALLED STARTER NEW		
		ATTACHED TO CRANE AND POSITIONED INTO TOURQUE CONVERTER		
		AFTER MATING AND INSTALLING 6 BOLTS FOR ALIGNMENT		
		FOUND OUT ENGINE CAME EQUIP FOR A D6N AND THE FLY		

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<p>WHEEL WAS WRONG  USED FLYWHEEL FROM THE OLD ENGINE AND INSTALLED  NEW ENGINE INTO THE TOURQUE CONVERTER  INSTALLED MOUNTING BOLTS AND TOURQUED TO CAT  SPECS  INSTALLED ALL ELECTRICAL CONNECTION ON THE BACK  SIDE  INSTALLED ENGINE HOLD DOWN BOLTS AND TOURQUED TO  CAT SPECS  INSTALLED FUEL LINES  INSTALLED ALL HYDRAULIC LINES  INSTALLED AIR LINES  INSTALLED HOOD  INSTALLED GUARDS  INSTALLED ROPS  TESTED MACHINE AND FOUND THAT THE ECM THAT WAS  SENT WAS ALSO FOR A D6N  GOT FACTORY PASSWORDS FROM CAT TO RESET THE ECM  TESTED MACHINE AND FOUND THAT THE ENGINE WAS  PERFORMING CORRECTLY  INSTALLED BELLY PANS AND FLOOR PLATE</p>				
#4999				
1	3E-3535	DRYER	S	
1	3E-9864	LOCKNUT	S	
1	3K-3257	GASKET	S	
2	5P-2230	CLAMP	S	
1	5P-9806	SEAL-O-RING	S	
1	6I-2501	ELEMENT AS	S	
1	6I-2502	ELEMENT AS	S	
1	8C-8843	BOLT	N	
4	8T-4123	WASHER	S	
13	8T-4136	BOLT	S	
8	8T-4984	CLAMP	S	
4	8T-4986	CLAMP	S	
4	8T-6381	BOLT	S	
4	9W-9930	MOUNT ASSY	S	
2	009-3215	INSERT	N	
1	123-0858	PULLEY	N	
4	144-0367	CLAMP	S	
1	193-0205	HOSE-REDUCER	N	

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1	199-2580	HOSE	N	
1	203-7607	HOSE	N	
1	206-7740	HOSE	N	
1	233-2128	HOSE	N	
1	472-0401	GLOVE M	S	
7	3145168X	10W HYDO ADV 1 GALS		
7	5153957X	15W40 DEO (ULS) BULKS		
10	4TML4	CLEANER-BRAK	S	
		TOTAL PARTS	SEG. 04	
			F/R LBR	
2.00		EMERGENCY CHARGE		
		TOTAL MISC CHGS	SEG. 04	
		SEGMENT 04 TOTAL		4715.00 T

## RECONDITION RADIATOR

### CUSTOMER COMPLAINT:

REMOVE AND REPLACE RADIATOR

### REPAIR PROCESS COMMENTS:

REMOVED RADIATOR AND REPLACED WITH NEW

#4999

1	3K-0360	SEAL	S
1	5D-1026	CLAMP	S
12	5K-9090	SEAL O RING	S
50	5P-0767	CM-HOSE STK	S
1	6V-7238	VALVE	S
12	6V-9746	SEAL O RING	S
50	7K-1181	TIE	S
1	7M-8485	SEAL	S
140	8C-3681	CM HOSE STK	S
1	9X-7378	SEAL	S
1	9X-7383	SEAL O RING	S
1	9X-7384	SEAL-O-RING	S
2	9X-7385	SEAL	S