Invoice Information

WO Number: WO Date:

Store: Payment Terms: P/O Number: Ship Via: Invoice Type:

Make: Model: CATERPILLAR

Serial: PIN:

D6HLGP 08YC00408

Id No: Cust Unit:

Meter:

8313.0

Invoice Summary

Parts: Labor:

Misc: Taxes:

Invoice Total:

Amount Due:

\$22,685.70

22,685.70

DUE BY 10TH OF THE NEXT MONTH Credit card payments are only accepted at Point of Sale. A service charge of 1 1/2 % per month will be assessed on all past due accounts.

To ensure proper credit, please detach this portion, at the perforation, and return with remittance.

INVOICE COPY

Amount Due:

\$22,685.70

Invoice Number: Unit Price Quantity Description PUT "T" UNDER MARKETING PRECIOUS METAL PLATINUM WARRANTY HOUR METER READING 8313 RECONDITION IN FRAME ENGINE MINOR CUSTOMER COMPLAINT: MACHINE WAS LOCATED IN LYON COUNTY BY WALNUT GROVE MN. REMOVE ENGINE FROM CHASSIS. REPAIR PROCESS COMMENTS: FINISH DISCONNECTING EVERYTHING FROM ENGINE AND REMOVE ENGINE FROM CHASSIS , LOAD IN MY TRUCK AND BRING ENGINE TO SHOP AND PUT ON STANDS. CUSTOMER COMPLAINT: RECONDITION ENGINE CAUSE OF FAILURE: HEAD GASKET WAS BLOWN AND #6 LINER WAS LOW RESULTANT DAMAGE: BLOWN HEAD GASKET
REPAIR PROCESS COMMENTS:
JIM HAD THE CLEAN UP OF THE ENGINE DONE AND THE
COUNTER BORES CUT I INSTALLED THE CYLINDER PACKS
AND ROD AND MAIN BEARINGS AND TORQUE THE BOLTS I
INSTALLED THE FRONT COVER AND ALL NEW GASKETS AND
FRONT CRANK SEAL AND TRUNNION I INSTALLED THE
HEAD AND TORQUE THE HEAD BOLTS AND I SET THE
VALVE SETTINGS AND INSTALLED THE VALVE COVER I
INSTALLED NEW INJECTORS AND THEN INSTALLED THE
EXHAUST MANIFOLD AND TURBO I INSTALLED THE
INJECTION PUMP AND INJECTION LINES I INSTALLED
THE STARTER AND INTAKE I HAD TO REMOVE THE IDLER
GEAR FOR THE REAR GEAR TRAIN BEFORE I RAN THE
ENGINE I HOOKED UP THE ENGINE SO I COULD RUN IT
AND I RAN THE ENGINE AND CHECKED TIMING IT IS SET
AT 22 DEG BTDC CHECKED FOR LEAKS I HAD TO
REPLACED HE THROTTLE SHAFT SEAL ON THE INJECTION
PUMP BLOWN HEAD GASKET PUMP CUSTOMER COMPLAINT: THE ENGINE IS PUSHING COOLANT OUT THE OVER FLOW OF THE RADIATOR. CAUSE OF FAILURE: THE NUMBER SIX LINER HAS WORN THE COUNTER BORE OF THE BLOCK AWAY AND HAS LOWERED THE LINER PROTRUSION. RESULTANT DAMAGE: THE HEAD GASKET HAS FAILED ON NUMBER SIX CYLINDER LETTING COMPRESSION ENTER THE COOLING SYSTEM. REPAIR PROCESS COMMENTS: REPAIR PROCESS COMMENTS:
RUSS HAD THE TURBO AND AIR LINES OFF THE ENGINE.
I DISASSEMBLED THE ENGINE AND CLEANED ALL PARTS.
I PUT CLEAN PARTS ON SHELVES AND COVERED. THE
NUMBER SIX CYLINDER LINER FIRE RING ON THE HEAD
GASKET SHOWS IT HAS NOT BEEN SEALING LETTING
COMPRESSION INTO THE COOLING SYSTEM. I CUT THE
COUNTER BORES TO .028" DEPTH TO GET TWO MORE
THOUSANDTHS PROTRUSION. I ORDERED PARTS AND THEN WAITED FOR OVERHAUL KIT TO ARRIVE THRUST-PLATE 100-3652 KIT ENG OVER 20R-1482 CORE CHARGE CORE CREDIT BEARING-MAIN 232-3233

F/R ALL

Extended

scription 12325.58 T SEGMENT 01 TOTAL REPLACE ENGINE OIL COOLER CUSTOMER COMPLAINT:
REPLACE OIL COOLER
REPAIR PROCESS COMMENTS:
I REMOVED THE ENGINE OIL COOLER AND REPLACED WITH A RE MAN COOLER. F/R PTS OR-3499 CORE A OIL CORE CHARGE CORE CREDIT 5S-6051 GASKET F/R LBR SEGMENT 02 TOTAL 625.00 T REPLACE CAMSHAFT CUSTOMER COMPLAINT:
REPLACE CAM SHAFT AND BUSHINGS
REPAIR PROCESS COMMENTS:
I REPLACED CAM SHAFT BUSHINGS AND CAMSHAFT AND THE I REPLACED CAM SHAFT BUSHINGS AND CAMSHAFT AND THE LIFTERS
CUSTOMER COMPLAINT:
I REMOVED THE CAM SHAFT LIFTERS AND CAN SEE THE LOBE'S ON NUMBER ONE CYLINDER ARE FLAKING ON THE EDGE. THE LIFTERS ARE WORN FLAT AND ARE RIDING ON THE EDGE OF THE LOBE. IT WAS DECIDED TO REPLACE THE CAMSHAFT.
REPAIR PROCESS COMMENTS:
I REMOVED THE FRONT COVER AND GEAR TRAIN. I HAD THE CAMSHAFT READY TO BE REMOVED. I CLEANED ALL PARTS. F/R PTS CAMSHAFT KT CORE CHARGE CORE CREDIT 1 OR-3023 N N F/R LBR SEGMENT 03 TOTAL 1350.00 T REPLACE CRANKSHAFT REAR SEAL CUSTOMER COMPLAINT: A REAR CRANK SEAL WAS TO BE INSTALLED.
REPAIR PROCESS COMMENTS:
I REMOVED THE FLYWHEEL AND CAN SEE THE DRIVE GEAR
FOR THE PUMP DRIVE HAS BEEN DAMAGED FROM A PRIOR
REPAIR. THERE WAS FORCING BOLT IMPRINTS IN THE
GEAR TEETH. THE GEAR WAS REPLACED WITH NEW. I CLEANED THE FLYWHEEL HOUSING AND FLYWHEEL. I INSTALLED A REAR CRANKSHAFT SEAL AND REASSEMBLED. 1 7C-4297 SEAL G-CRANK S 120.31 TOTAL PARTS SEG. 04 F/R LBR

SEGMENT 04 TOTAL

220.31 T

Quantity	tem [1	N/R	Description		Unit Price	Extended
REPLACE FUEL INCUSTOMER COMPLETE ENGINE WAS REPAIR PROCESS I INSTALLED SIX FUEL INJECTION THE TORQUE AND MACHINE. NO FUEL THE INSULTATION THE GOVERNOR NEW ONE AND SER	AINT: LOW POWER. COMMENTS: X NEW PLUNG PUMP. I C FUEL WERE JEL SETTING ATED TERMIN	ERS AND BARRE HECKED FUEL S RIGHT ON SPEC S WERE CHANGE AL WAS LOOSE I REPLACED I	FOR THIS ON THE REA TO WITH A			
6 1W-6539 1 2J-3506 1 3J-7354 1 3P-0009 1 6I-2004 6 7E-4846 6 8H-9204 2 8T-0328 1 150-3724		PUMP GP NUT SEAL O RING INSULATOR GASKET SEAL WASHER WASHER GASKET	Kaaaaaaaa	F/R PT		
				F/R LB	R	
		SEGMENT 05	TOTAL			1589.00 T
REPLACE ENG OIL CUSTOMER COMPLATHE OIL FILTER AND OUT LET TUE RESULTANT DAMAGE THERE ARE GROOV HOUSING. SO RES REPAIR PROCESS I REMOVED THE FEMOUSING WITH SE	AINT: BASE IS LE BES. BE: BES CUT INT BEALING IT COMMENTS: FILTER BASE	AKING OIL AT O THE FILTER WILL NOT WOR AND INSTALLE	A BASE			
2 0S-1618 2 1B-2790 1 2M-5407 1 3J-7354 1 7F-7590 2 8M-4432 2 8N-6985 2 9M-4849 1 9S-4182 1 9Y-6859 1 9Y-6860 1 9Y-7149		CAP SCREW CAP SCREW GASKET SEAL O RING GASKET SEAL O RING GASKET SEAL O RING PLUG COVER GASKET BASE A	aaaaaaaaaanan	F/R PT	S	
				F/R LE	BR	
		SEGMENT 06	TOTAL			442.00 T
		PARTS ONLY				
REPAIR PROCESS PARTS NOT INCL 4 OL-2070 2 OS-1590 1 OS-1619	UDED IN OVE		s s s			

Quantity		Item	N/R	Description		Unit Price	Extended	2000
311161111111111111111111111111111111111	1B-7707 1S-95409 1T-95416 1W-9716137 1W-9716137 1W-9716137 1W-971692 2H-39342 2P-87469 4W-971692 2H-1231064 4W-218169 2H-1231064 4W-218169 4W-218169 4W-218169 4W-218169 4W-218169 4W-218169 4W-31054 5FF-28916 6W-48935 6W-48935 6W-568317 8M-5014 8M-5014 8M-5014 8M-5014 8M-5014 8M-7272 1538-8648 8M-7272 1538-8648 8M-7272 1538-8648 8M-7272 1538-8648 8M-7272 1538-8648 15		CAPSCREW LUBE FILTER DOWEL SEAL-O-RING BOLT PUMP INDICATOR GEAR CLAMP CLAMP SEAL SEAL-O-RING GASKET GASKET GASKET GASKET SEAL-O-RING INDICATOR HOSE SEAL SEAL SEAL ORING INDICATOR HOSE SEAL SEAL SEAL WASHER PLUG CLAMP SCREW A RING-SEAL SEAL ORING NUT ELEMENT A SEAL ORING GASKET SEAL SEAL ORING GASKET ELEMENT-AIR INSERT SEAT GASKET CAT ELC COOLANT-ELC MOUNT AS-CLA TRUNNION-CLA CM HOSE BULK SOS 12 PACK					
			TOTAL PART	S	SEG. 07		2349.91	
			SEGMENT 0	7 TOTAL			2349.91	T

INSTALL ENGINE

Quantity	Item	N/R	Description		Hell Date	
			Description		Unit Price	Extended
THEN S FOR L IDLE A CHECKE CONVER	NES AND ADDED OF TARTED THE ENGINEERS AND IT IS AND HIGH IDLE AND OUT THE ENGINEER TEMP SENSOR ART AND HE IS GO	NE AND WARM OK AND THEM ID ADJUSTED IE COOLANT TO SES AND HAD	MED UP AND CHE N CHECK THE LO THE THROTTLE . FEMP AND TORQU THE CUSTOMER G	W AND E		
		TOTAL	LABOR	SEG. 08		
		SEGN	MENT 08 TOTAL			1395.00 T
CUSTOM WHEN T WERE C ENGAGE REPAIR I REMO	PROCESS COMMEN	REMOVED THE THE START	HE RING GEAR T FER RING GEAR			
NEW GE 1 7N-	AR. 9146	GEAR	N		319.73	
		TOTAL	L PARTS	SEG. 09		
		TOTAL	L LABOR	SEG. 09		
		SEGN	MENT 09 TOTAL			417.73 T
1.00-		PROMOT	TION PARTS CREDIT			
		TOTAL	L MISC CHGS	SEG. 96		
		SEGM	MENT 96 TOTAL			524.99-T
TRAVEL	TO/FROM MACHINE					
140.00			LABOR EL MILEAGE	SEG. 99		
		TOTAL	MISC CHGS	SEG. 99		
		SEGM	MENT 99 TOTAL			438.00 T
		MN SA	LES TAX-6.875	6		
MARSHALL MN CITY TAX						
		* * * DUE BY 10	INVOICE COPY	Y * * * T MONTH	*	

22,685.70

INVOICE TOTAL