

Hours:	6802.0
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Service Order Summary

WO

2245983 SV

3330 REPAIR ENGINE NOISE

[illegible]

TOTAL INVOICE

\$5,000.22

Payment Information

Client ID: Store ID:

X

Customer Signature _____

3330 REPAIR ENGINE NOISE

Comments:

check fluidscheck codes
run engine and do a injector cut out test. #4 cylinder is dead.
look up parts and help coy
washed off the sprayer, then pulled the sprayer in to the shop and unbolted the valve cover, then found that the brigeys were off of the valves
looked up the valve lash on the exhust and intake valve, started to rotate the engine and check the valve lash on each cycindar
installed the rocker arms and turned turned the engine over and set the valve lash, after that I drained the engine oil and removed the engine oil filter and installed the new filter then filled the engine up with oil and started the sprayer, found that the engine still had a miss and hooked est up to the engine and used eassy tool to check each injector, then found that number 4 injector was bad unbolted the injector and rmeovedit from the engine, started to hook up the compression tester.
help coy with diagnosing fuel issues with #4 cylinder. capped off fuel to see if it still smoked.

Labor:

WO #	Description	Amount
217616	Labor	
	TRUCK IN	
Total Labor		

Parts:

Qty	Vendor	Part Number	Description	Bin	Price	Ext. Price
1.00	CAS	504070040	GASKET			
1.00	CAS	504344540	ROCKER ARM			
1.00		FREIGHT	FREIGHT			
1.00		FREIGHT	FREIGHT			
2.00	CAS	73344233	OIL ENGINE	2221		
1.00	CAS	84228488	ENGINE OIL FILTER	2522		
1.00	CAS	504128307R	REMAN-FUEL I			
1.00		FREIGHT	FREIGHT			
1.00	CAS	504100835	FITTING			
-1.00	CAS	504128307C	CORE INJECTOR, FUEL SYSTEM	CORE		
1.00	CAS	BN69860	CIRCUIT BREAKER			
Total Parts						

Tax
Total WO \$5,000.22



Make: CASE IH
Model: 3330

Cust PO:
Cust Fleet#:

Job Desc: 3330 REPAIR ENGINE NOISE

Hours: 6802.0

Service Order Summary

WO #

3330REPAIR ENGINE FAULT

\$2,510.73

TOTAL INVOICE

\$2,510.73

Payment Information

Client ID: Store ID:

X

Customer Signature





3330REPAIR ENGINE FAULT

Comments:

look at fault codes and started to dignous engine fault
tested the engine harness and order and new one installed the engine harness
reloaded software
started to digunous the fault codes for the ecu
fixed the wiring
found the harness which was a ground for the engine ecu had been rubbing on negative battery cable

Labor:

Description	CL	Amount
Labor		
Total Labor		

Parts:

Qty	Vendor	Part Number	Description	Bin	Price	Ext. Price
1.00	CAS	504122747	HARNES, WIRE			
1.00	MIS	PIC81103PT	WIRE			
1.00	MIS	PIC4239KT	KT-PACK			
1.00	MIS	4238KT	KT-PACK			
1.00	MIS	4009KT	KT-PACK			
Total Parts						
Tax						
Total WO						\$2,510.73

TOTAL INVOICE

Payment information

Customer Signature

Phone: 800-457-5526

Web: www.titanmachinery.com

Warranty: All parts are warranted for 90 days or 10,000 miles, whichever comes first. Labor is warranted for 90 days or 10,000 miles, whichever comes first. This warranty is void if the equipment is used for commercial purposes or if it is modified. The customer is responsible for maintaining proper records of all repairs and parts replaced. The customer is also responsible for providing proper maintenance and oil changes. The customer is also responsible for providing proper maintenance and oil changes. The customer is also responsible for providing proper maintenance and oil changes.



Hours:	6802.0
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Service Order Summary

WO #

2274947 SV

3330 REPLACE ENGINE

TOTAL INVOICE

\$28,493.88

Payment Information

Client ID: Store ID:

X

Customer Signature _____

3330 REPLACE ENGINE

Comments:

surface head, valve job, install 4 seats in cyl 4, crack check, clean head,

Labor:

Description

Labor

valve job, crack ck, surface

Amount

Total Labor

Parts:

Qty	Vendor	Part Number	Description	Bin	Price	Ext. Price
1.00	CAS	504384423ER	REMAN-SHORT ENGINE			
1.00	CAS	5801645677	GASKET			
1.00	CAS	87478869	KIT, GASKET			
1.00	CAS	2830704	THICKNESS 1,25 MM			
1.00	CAS	504070040	GASKET			
1.00	CAS	504070038	GASKET			
1.00	CAS	5801483558	SEAL, OIL			
1.00	CAS	5801483583	SEAL, OIL			
1.00	CAS	2859342	TURBOCHARGER			
5.00	MIS	HDWE5	HARDWARE	1400		
1.00	CAS	5802497075R	REMAN-WATER PUMP			
1.00	CAS	504065877	TENSIONER, B			
1.00	CAS	504315785	BELT TENSIONER	0925		
1.00	CAS	504065878	ROLLER, SHIF			
1.00	CAS	504065879	PULLEY	0935		
12.00	CAS	4891024	SCREW			
14.00	CAS	4891025	SCREW			
6.00	CAS	4892867	SCREW			
1.00	CAS	73341723	2.5G / 9.46L HYTRAN			
2.00	CAS	CC2825	ANTIFREEZE	2433		
2.00	CAS	73344233	OIL ENGINE	2221		
1.00	CAS	87682984	FILTER, AIR	5031		
1.00	CAS	87682985	FILTER, AIR	5050		
1.00	CAS	84228488	ENGINE OIL FILTER	2522		
1.00	CAS	84412164	PKG-FILTER, Fuel Filter	2641		
-1.00	CAS	504384423EPAC	CORE-EPA ENGINE	CORE		
2.00	CAS	ZPX18572	SEAL, SPECIA	2110		
1.00		FREIGHT	FREIGHT			
4.00	CAS	4895051	STD EXHAUST	0642		
4.00	CAS	4895052	VALVE,ENGINE			
1.00	CAS	5802274911	PUMP ENGINE OIL			
1.00	CAS	4898301	GASKET	0447		
1.00	CAS	2830559	GASKET			
1.00	CAS	4896409	GASKET			
1.00		MISC	REMAN INJECTORS / INNER TUBE			
24.00	CAS	2831287	SEAL			
1.00	CAS	73341699	15W40 1QT / .95L ENGINE OIL	2310		
1.00	CAS	504114491	GASKET			
1.00	CAS	4899921	GASKET			
1.00	CAS	504380075	THERMOSTAT	0423		
2.00	CAS	504062710	PKG-O-RING			
1.00	CAS	5802123628	GASKET	0443		
1.00	CAS	217408	O-RING	DR22-21		
1.00		MISC	EXPANSION PLUG			
2.00	CAS	4895406	PLUG			
4.00	CAS	5183780	WASHER, SEALING	DR41-03		
1.00		FREIGHT	FREIGHT			
1.00	CAS	87645567R	REMAN, ALTERNATOR	0137		
-1.00	CAS	87645567C	CORE, ALTERNATOR	CORE		
3.00	CAS	87299775	75W90 GEAR OIL 1QT	2320		
1.00	CAS	87341550	BOLT			

1.00	CAS	86980518	NUT	0327
1.00	CAS	J883284	O-RING	3050
2.00	CAS	ZX001	LOW SILICATE CONCENTRATE EG-	4312
1.00	CAS	87341998	BOLT	
3.00	CAS	CC2825	ANTIFREEZE	2433
5.00	MIS	HDWE5	HARDWARE	1400
1.00	CAS	73344328	OIL HYDRAULIC	4030
2.00	CAS	BMF31GSW	BATTERY, WET	4413
-2.00	CAS	SCR3	CORE	CORE
1.00	CAS	73344328	OIL HYDRAULIC	4030
1.00	CAS	5801960832	SENSOR, TEMPERATURE	
2.00	CAS	84412164	PKG-FILTER, <i>Fuel Filter</i>	2641
1.00	CAS	73344232	OIL ENGINE	2322
1.00	CAS	87272534	FUEL, FILTER TO ENGINE	
1.00	CAS	84204186	ENGINE TO TANK	
1.00	NHL	10261060	GASKET	
1.00	CAS	84412164	PKG-FILTER, <i>Fuel Filter</i>	2641
7.00	NHL	10261060	GASKET	

Total Parts

Tax

Total WO

\$28,493.88