



**RDO Equipment Co.**  
102 Wilcox Road  
Laredo, TX 78043  
956-718-1909  
Fax: 956-718-2064

For Billing Inquiries or to  
receive invoices via E-mail or  
MyDealer website, please contact  
RDOAR@rdoequipment.com

Ship to: N/A

Invoice to: 3E CIVIL CONSTRUCTION, LLC  
10410 MEDICAL LOOP  
SUITE 1A  
LAREDO TX 78045

Branch  
LAREDO, TX

Date	Time	Page
11/28/19	21:30:23 (B)	01
Account No.	Phone No.	Invoice No.
9150026	9567649150	W08932
Ship Via	Purchase Order	
Tax Exemption Number	Federal ID Number	
	Salesperson 1V1	

### SERVICE INVOICE

STK#/FLEET#	HRS	PIN/EIN	WARRANTY DATE	HRS
X868753 excavator 470G	10299	1FF470GXCCE470495	05/14/14	10000

\*\*\*Check out our quality used equipment at [www.rdousedequipment.com](http://www.rdousedequipment.com)  
\*\*\*View your invoices online at [RDOequipment.com/mydealer](http://RDOequipment.com/mydealer)

SEGMENT# 1 C MA501 00400B017 08/14/19 08/15/19  
COMPLETE ENGINE RECONDITION

CONDITION:

Customer requested to have engine removed from unit. Over  
haul the engine in the shop. jlv

CORRECTION:

brought engine to yard took it in to was bay to have clean  
down. proceeded to bring into shop placed on stands, drain  
oil and removed all harnesses and EGR cooler, hard lines  
fuel lines, exhaust manifold and turbo , remove valve cover  
, remove bolts to cam shaft hold downs to gain access to  
cam, remove rocker arms , remove all injectors , remove  
bolts to head , lift engine to get accesses to remove oil  
pan. remove bolts for connecting rods , and removed pistons  
, remove fly wheel and fly wheel housing , once that was  
off removed the 3 idler gears , remove front crank shaft  
pulley to remove front cover, inspect complete block for  
any cracks warps any damage, remove crank shaft, remove  
piston liners and inspect walls were liners sit.  
put liners into freezer to have them shrink for install.  
and starting to clean all re usable parts, Assembly  
connection rod for install of new rings on piston , install  
liners , main bearing , crank shaft and torque to specs ,  
install pistons in sequence from 1 to 6 , torque connecting  
rod to specs , install timing idlers , install fly wheel  
housing and rear main seal and fly wheel , install front

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X868753 excavator	10299	1FF470GXCCE470495	05/14/14	
470G				10000

cover , replace front seal , and crank pulley , clean head  
 for disassembly for exhaust and intake valves to install  
 new springs and seals , install head and torque down to  
 specs install injectors , rocker arms , install cam shaft  
 and set its timing and calibrate intake and exhaust valves  
 , remove thermostat housing and install new ones , install  
 EGR cooler intake and exhaust manifold , fuel lines,  
 harnesses , starter , hard lines , oil pick up tube oil pan  
 , install valve cover , and engine is ready to be dropped  
 in at filed

FRT	SHIP/HANDLING	6	22.50	135.00
PM38657	HIGHFLEXGASKET	1	18.92	18.92
PM710XX280	SEALANT	1	11.12	11.12
TY26576	2.5GAL COOL-GAU	4	31.83	127.32
TY26679	PLUS-50 TM ENGI	2	95.02	190.04
	PLUS-50 II OIL 15W40 CK4/SN			
1878136381	CYLINDER KIT	6 N	980.38	5882.28
1878149080	Gasket	1 N	1768.20	1768.20
2908-050	5GA HITACHI OIL	17	115.03	1955.51
4612763	BELT SET	1	53.78	53.78
4676385R	Filter Element	2	29.72	59.44
8970737820	Bolt	3 N	1.58	4.74
8976032562	Gear	1 N	160.15	160.15
8976054840	CONNECTING ROD	6 N	69.08	414.48
8976097680	BEARING	7 N	85.27	596.89
	Crankshaft And Piston Kit			
8976097690	Crankshaft And	7 N	85.27	596.89
	Crankshaft And Piston Kit			
8976097700	Crankshaft And	7 N	85.27	596.89
	Crankshaft And Piston Kit			

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X868753	excavator 470G	10299	1FF470GXCCE470495	05/14/14		
					10000	
8981426370	Gauge		1 N	45.98		45.98
8981527381R	Filter Element		2	33.43		66.86
8981568931	Idler Gear		1 N	435.65		435.65
8982583790	Shaft		1 N	120.20		120.20
8983758600	FILTER		2	62.82		125.64
				PARTS		13365.98
				LABOR		12768.00
10401099			SEGMENT TOTAL==>			26133.98

SEGMENT# 2 C MA501 ZONE 25 08/14/19 08/14/19

Travel time

CONDITION:

Travel time to and from location. Unit is located at  
 Pinnacle yard.

POC: Alfonso -- 956-401-0419.

CORRECTION:

travel twice to take out engine and 3 times to install

	LABOR	1239.30
10401099	SEGMENT TOTAL==>	1239.30

SEGMENT# 3 C MA501 RDO-080-012 08/14/19 08/27/19

Extract/repair broken bolt/stud

CONDITION:

rocker arm bolts were snapped when engine was being checked  
 prior to removal.

CORRECTION:

drill out old bolts had to be slow not to heat up the bolts  
 and make the aluminum housing warp of mess up threads once  
 out ran a re tap to make sure threads were clean and  
 straight

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X868753 excavator 470G	10299	1FF470GXCCE470495	05/14/14	10000	
			LABOR		1099.20
10401099			SEGMENT TOTAL==>		1099.20

SEGMENT# 4 C MA501 00400A002 08/14/19 08/15/19

ENGINE, R AND I

CONDITION:

REMOVE ENGINE FROM MACHINE AND INSTALL WHEN OVERHAUL IS  
COMPLETED.

CORRECTION:

ENGINE REMOVAL -----

travel to location, to remove engine from unit. take all  
covers hood air intake cover HYD pump covers ,exhaust pipe  
, drain 55 gal of HYD oil , drain antifreeze , remove bolts  
from fly wheel to main HYD pump , disconnected 6 HYD lines  
to be able to separate , remove air cooler hose , coolant  
hose , starter cables , A/C compressor , remove sensor  
connectors and fuel lines , fan guard , and take support  
bolts to be able to lift engine out of unit  
-----

ENGINE INSTALL  
-----

brought engine to location and lifted with truck hoist,  
install engine support bolts , WHILE RE INSTALL FOUND THAT  
DAMPER WAS INSTALLED BACKWARDS HAD TO REMOVE AND INSTALL  
CORRECTLY . installed A/C compressor , starter cables ,  
fuel,  
exhaust filter , lines , install new fuel , air , engine  
filters , install HYD lines , connect radiator and air  
cooler hoses , fill engine coolant , fill new HYD oil ,  
fill engine oil, reprogram ECU ,checked for codes, prime

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### SERVICE INVOICE

STK#/FLEET# HRS PIN/EIN WARRANTY DATE HRS  
X868753 excavator 10299 1FF470GXCCE470495 05/14/14 10000  
470G

and started engine, had unit running on low idle for an  
hour to test no leaks were found . shut unit down waited a  
few minutes to  
let the oil settle to re check fluid levels, all was good ,  
install all service panels and covers on unit . clear old  
store codes ,unit is good to go.

LABOR 5919.10  
10401099 SEGMENT TOTAL==> 5919.10

SEGMENT# 5 C MA501 NA 08/14/19 08/15/19  
REPLACE INTAKE AND EXHAUST VALVE SPRINGS AND SEALS

CONDITION:

REMOVE AND REPLACE INTAKE AND EXHAUST VALVE SPRINGS.  
CUSTOMER HAD ALREADY PURCHASED THE VALVE AND OIL SEALS.

CORRECTION:

remove intake and exhaust valves to inspect head and  
install new springs and oil seals. installed back on engine  
block and torqued to specifications.

PM710XX280	SEALANT	1	11.12	11.12
0286808350	Bolt	20 N	3.11	62.20
8943956840	Isolator	20 N	10.12	202.40
8973886440	Exhaust Valve	2 N	98.98	197.96
8980890910	Gasket	1 N	8.43	8.43
8983192540	Thermostat	2 S	180.54	361.08
8983885980	Cylinder Head	1	230.19	230.19
	PARTS			1073.38
	LABOR			718.20
10401099	SEGMENT TOTAL==>			1791.58

SEGMENT# 6 C MA501 10-040-130 08/14/19 08/15/19

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X868753	excavator	10299	1FF470GXCCE470495	05/14/14	
	470G				10000
BATTERIES, R&R					
<u>CONDITION:</u>					
Replace batteries					
<u>CORRECTION:</u>					
Customer was advised the batteries needed to be replaced.					
Customer advised to proceed to change them out.					
TY23020A	WET CHARGE BATT	2	321.24		642.48
	Wet Charged Battery				
CRTY23020A	Wet Charged Bat		54.00		108.00
			PARTS		750.48
			LABOR		176.00
10401099			SEGMENT TOTAL==>		926.48

#### \*\*\*\*\* WORK ORDER TOTALS \*\*\*\*\*

PARTS	15189.84
LABOR	21919.80
SRV ACC/HAZ MAT	200.00
SUB TOTAL==>	37309.64
TX LAREDO 8.25%	3078.05
TOTAL DUE RDO	40387.69

+-----+  
| Payments are due on your RDO account 30 days from the invoice date |  
+-----+

\*\*\*\*\*  
PLEASE REMIT TO: RDO EQUIPMENT CO.  
P.O. BOX 7160

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	470G				10000
	FARGO, ND 58106-7160				

\*\*\*\*\*

Thank you for your business