



**RDO Equipment Co.**  
 2649 North 29th Avenue  
 Phoenix, AZ 85009  
 602-415-4700  
 Fax: 602-233-0383

Service Manager: PH.Service@rdoequipment.com  
 General Manager: PH.GenMgr@rdoequipment.com  
 www.rdoequipment.com

Ship to: N/A

Branch  
 PHOENIX, AZ

Date	Time	Page
03/20/23	07:31:01 (O)	01
Account No.	Phone No.	Invoice No.
3034025	8156544700	W8185431

Invoice to: WILLIAM CHARLES CONSTRUCTION COMPANY, LLC  
 5290 NIMTZ RD  
 LOVES PARK IL 61111-3932

Ship Via Purchase Order  
~~XXXXXX~~ PO 226458

Tax Exemption Number Federal ID Number

**APPROVED**  
 By Ryan Olson at 11:17 am, Mar 20, 2023

Salesperson  
 EL0

**WORK ORDER PREVIEW - NOT AN INVOICE**

Unit# 1409030

STK#/FLEET#		HRS	PIN/EIN	WARRANTY DATE	HRS
X674942	EXC>40	7943	1FF470GXVHF235086	06/03/18	
1409030	470G				5000

SEGMENT# 1 S JLP01 RDO-020-DIAG 11/16/22 11/15/22

ENGINE DIAGNOSTICS

CONDITION:

OIL IN THE COOLANT

CAUSE:

Head gasket or oil cooler.

CORRECTION:

Arrived at machine. Checked surge tank for being low on fluid. Found surge tank is full of oil. Removed EGR cooler to EGR valve tube. Inspected EGR Cooler for any signs of damage. EGR cooler is clean. Checked history reported to DEERE. Found head bolt update was done. Not sure if head bolt, head bolt seal has been cut. Had it scheduled with customer but customer wanted to wait until another machine got on site to replace it. Customer told me surge tank is getting worse and surge tank is now putting oil out.

10401099	LABOR	696.90
	SEGMENT TOTAL==>	696.90

SEGMENT# 2 S JLP01 ZONE60 11/16/22 10/14/22

Round trip travel to and from location.

CONDITION:

LOCATION VULTURES MINE WICKENBURG

CONTACT STACEY 815-904-3274

CAUSE:

Travel.

CORRECTION:

1 round trip travel.

	LABOR	365.15
CONTINUED ON PAGE 02		

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Account No. 3034025 Phone No. 8156544700 Invoice No. W8185431

Invoice to: WILLIAM CHARLES CONSTRUCTION COMPANY, LLC  
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1409030 470G				5000	
10401099					SEGMENT TOTAL==> 365.15

SEGMENT# 4 S JLP01 01910A001 11/16/22 11/22/22

ENGINE HOOD, REPLACE

CONDITION:

ENGINE HOOD LINKAGE

CAUSE:

Linkage has worn into hood and has wear mark on linkage.

CORRECTION:

Lifted hood. Supported hood with crane. Removed linkage.

Installed new linkage. Installed new clips and washers.

Job complete.

JLP01.

FF535160	Brace	1 N	401.70	401.70
FRTIN	SHIP/HANDLING	2	10.88	21.76
L12622	SPRING LOCKING	10 N	1.05	10.50

Spring Locking Pin

CAME IN 10 PACK

24M7085	WASHER	10 N	.56	5.60
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CAME IN 10 PACK

PARTS 439.56

LABOR 242.40

10401099			SEGMENT TOTAL==>	681.96
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SEGMENT# 5 C JLP01 04363A015 11/16/22 12/13/22

HOSE-SWING MOTORS, CONTROL VALVE TUBE TO SWING DRIVE MOTOR,

Segment has been billed on work order W83846 - 01

SEGMENT# 6 C T0501 RDO-040-DIAG 11/16/22 01/30/23

ELECTRICAL DIAGNOSTICS

CONTINUED ON PAGE 03

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1409030	470G				5000

Segment has been billed on work order W83846 - 02

SEGMENT# 7 C EG401 RDO-130-DIAG 11/16/22 01/24/23  
 CHASSIS / FRAME / HITCHES DIAGNOSTICS  
 Segment has been billed on work order W83846 - 03

SEGMENT# 8 C EG401 03360A020 02/01/23 02/01/23  
 BOOM CYLINDER, REPLACE-2  
 Segment has been billed on work order W83846 - 04

SEGMENT# 9 C EG401 RDO-570-076 02/01/23 02/01/23  
 BOOM CYLINDER BUSHINGS, REPLACE BOTH ENDS  
 Segment has been billed on work order W83846 - 05

SEGMENT#12 C EG401 03340A071 02/01/23 02/01/23  
 ARM (DIPPERSTICK) BUSHINGS, REPLACE-ALL  
 Segment has been billed on work order W83846 - 06

SEGMENT#13 C EG401 00130A267 02/01/23 02/01/23  
 PINS & BUSHINGS, REPLACE-2 SIDES  
 Segment has been billed on work order W83846 - 07

SEGMENT#16 C EG401 RDO-080-023 02/01/23 02/03/23  
 WELDING  
 Segment has been billed on work order W83846 - 08

SEGMENT#17 S BN101 00400A002 02/01/23 02/01/23  
 ENGINE, R AND I

CONDITION:

Remove engine to perform head and gasket replacement.

CONTINUED ON PAGE 04

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    226089

**Tax Exemption Number**      **Federal ID Number**

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1409030      470G				5000	
RE541424	Bolt Kit		1 N    300.81		300.81
RE572785	Oil Filter		1       81.59		81.59
R529465	GASKET		1       12.12		12.12
TY25627	YELLOW SPR		3       11.85		35.55
	Yellow Spray Paint				
TY26268	PRIMER		3       9.67		29.01
TY26682	PLUS-50 TM ENGI		47      6.21		291.87
	PLUS-50 II OIL 15W40 CK4/SN				
T70176	RING		1       8.65		8.65
U17409	O-RING		1       3.43		3.43
X10643-4-4	HOSE FITTI		2       8.91		17.82
X487TC-4-RL	Bulk Hose		4       7.47		29.88
19M7786	SCREW		3       1.54		4.62
				PARTS	4425.42
				LABOR	6800.00
10401099			SEGMENT TOTAL==>		11225.42

SEGMENT#19 S BN101 RDO-100-015 02/01/23 02/01/23  
 CONTAMINATION FLUSH PROCEDURE

CONDITION:

after all engine repairs flush cooling system.

CORRECTION:

3/8/23 BN101

Fill cooling system with water and flushing chemical. Turn heater valve open. Connect service advisor and command DEF header coolant valve open. Operate engine for 2 hours with thermostats removed; block radiator and monitor coolant temp to maintain 190\* during operation. Drain cooling system and refill with clean water. Operate engine until water is at 190\*. Drain cooling system. Remove components

CONTINUED ON PAGE 07

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1409030 470G				5000
to access thermostat cover. Remove thermostat cover and install new thermostats. Install thermostat cover and components removed for access. Fill cooling system with new coolant.				
AT301456	CLAMP	3 S	22.96	68.88
AT372657	FILLER CAP	1	24.98	24.98
AT449011	TANK	1 S	288.89	288.89
FF500008	HOSE CLAMP	4	2.60	10.40
FF502753	Hose	1 N	23.29	23.29
FF533916	HOSE	1 N	12.04	12.04
FF533917	Hose	1 N	24.97	24.97
FF550640	Hose	1	160.49	160.49
FF551299	Radiator Hose	1	166.42	166.42
FRTIN	SHIP/HANDLING	2	25.03	50.06
PMCC2610	COOLANT RESTORE	2	41.65	83.30
RE540355	Gasket	1	15.35	15.35
RE554015	THERMOSTAT	3	37.43	112.29
RE558251	HOSE CLAMP	1 N	46.67	46.67
RE56097	CLAMP	2	18.34	36.68
R531530	Gasket	1	15.79	15.79
TY26576	COOL-GARD 2.5g	7	42.28	295.96
T459901	Radiator Hose	1 N	72.19	72.19
			PARTS	1508.65
			LABOR	2550.00
10401099			SEGMENT TOTAL==>	4058.65

SEGMENT#20 S BN101 00419B003 02/01/23 02/01/23  
 ENGINE OIL COOLER, R&I & RECONDITION  
CONDITION:  
 Remove oil cooler and test.

CONTINUED ON PAGE 08

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1409030 470G				5000
If cooler fails replace.				
If pass reinstall with new gaskets.				
<u>CORRECTION:</u>				
3/1/23 BN101				
Drain cooling system and remove engine oil cooler from engine. Set up oil cooler on test plate and pressure test cooler to 100 psi; oil and coolant passages both hold pressure. Submerge cooler in water while pressurized and inspect for bubbles, no bubbles present. Remove oil cooler from test plate and clean gasket surfaces. Reinstall cooler on engine.				
R530785	O-RING	1 N	5.37	5.37
R531550	Gasket	1 O	50.53	50.53
T78612	#20 O-RING	1	2.65	2.65
			PARTS	58.55
			LABOR	850.00
10401099			SEGMENT TOTAL==>	908.55

SEGMENT#21 C MNL01 RDO-080-409 02/01/23 02/08/23  
 WASH EQUIPMENT  
 Segment has been billed on work order W83846 - 09

SEGMENT#22 S BN101 00429A004 02/01/23 02/16/23  
 CRANKSHAFT PULLEY, REPLACE  
CONDITION:  
 Front crankshaft oil seal leaks.  
CORRECTION:  
 3/1/23 BN101  
 With engine removed from machine, remove front crankshaft pulleys, dampener hub, and dampener. Clean front of

CONTINUED ON PAGE 09

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1409030 470G				5000
timing cover and pull front crankshaft seal from crank. Clean crank and timing cover. Install press tooling and install new front crank seal to specified depth. Install dampener with new hardware. Install dampener hub using new hardware. Install front crank pulleys.				
FRTIN	SHIP/HANDLING	1	2.44	2.44
GC00110	BOLT	5 N	1.03	5.15
CAME IN 5 PACK. ALL GIVEN TO TECH				
T20168	WASHER	6	.62	3.72
19M8088	CAP SCREW	6 S	4.48	26.88
			PARTS	38.19
			LABOR	408.00
10401099			SEGMENT TOTAL==>	446.19

SEGMENT#23 S BN101 RDO-580-032 02/01/23 02/21/23

REMOVE AND INSTALL COUPLER

CONDITION:

Main pump drive coupler has a couple of small cracks.

CORRECTION:

2/23/23 BN101

With engine previously removed, remove drive coupler from flywheel. Clean flywheel and install new drive coupler. Set up pullers on front of pump housing and pull driven half of coupler from pump drive. Clean driveshaft and install new coupler on pump input shaft.

FRTIN	SHIP/HANDLING	1	78.86	78.86
FYA00066969	Coupling	1 N	3611.92	3611.92
			PARTS	3690.78
			LABOR	510.00
10401099			SEGMENT TOTAL==>	4200.78

CONTINUED ON PAGE 10

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1409030	470G				5000

SEGMENT#24 C JWC01 03360C002 02/01/23 02/28/23  
 BOOM CYLINDER, RECONDITION WHEN OFF (2)  
 Segment has been billed on work order W83846 - 10

SEGMENT#25 C BN101 10-020-111 02/01/23 02/28/23  
 ENGINE AIR FILTER(S), REMOVE AND REPLACE  
 Segment has been billed on work order W83847 - 01

SEGMENT#26 C BN101 02163A211 02/01/23 03/03/23  
 HOSE-PILOT PRESSURE, PILOT PUMP TO PILOT FILTER, REPLACE  
 Segment has been billed on work order W83846 - 11

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

PARTS	10384.45
LABOR	19086.45
HAUL CHARGE	2400.00
HAZARDOUS MTL	25.00
SRV ACCESSORIES	500.00
SUB TOTAL==>	32395.90
AZ CITY TAX	250.92
AZ COUNTY TAX	76.36
AZ STATE TAX	610.93
TOTAL DUE RDO	33334.11

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