



Arnold's of Willmar
4773 Hwy 71 South • Willmar, MN 56201
Phone: (320) 235-4898 • Fax: (320) 235-2755
www.arnoldsinc.com

Ship To: IN STORE PICKUP

Invoice To: INTERNAL USE - WILLMAR
4773 HWY 71 SOUTH
WILLMAR MN 56201

Branch			
WILLMAR		*REPRINT*	
Date	Time	Page	
09/27/24	23:31:24 (B)	01	
Account No	Phone No	Inv No	
INT02	3202354898	W11918	
Ship Via		Purchase Order	
		SVC PRO	
Tax ID No			
		Salesperson	
		CH3	

SERVICE INVOICE

STK#/FLEET#	HRS	PIN/EIN	WARRANTY DATE	HRS
W042792	ROPS, 2 rear remot	X JJE0005398		
JK1	595			

Our highly trained and skilled team of technicians are proud to serve the needs of the agricultural, consumer and construction communities.

SEGMENT# 1 C EW161 NA 11/06/23 11/28/23

SERVICE PRO INSPECTION

CORRECTION:

INSPECTED MACHINE AND WENT OVER REPAIRS WITH THE CUSTOMER

ADDITIONAL DESCRIPTION:

BRIAN HAS BOXES OF SPARE PARTS FOR THIS UNIT TO GO WITH

WHEN WE SEND IT TO AUCTION

OIL FILTER HOUSING GOT RIPPED OFF

FUEL TANK HAS A BAD LEAK

CHECK OVER THE FUEL SYSTEM- INJECTORS, FILTERS, ECT

A YEAR AGO CUSTOMER HAD WATER GET INTO THE HYDRAULIC SYSTEM

AND FREEZE UP THE SYSTEM. CHECK TO SEE WHERE WATER WOULD

GET INTO HYDRAULIC OIL. CUSTOMER HAS ALREADY CHANGED OIL

AND HAS NOT HAD FURTHER ISSUES WITH THE UNIT YET.

		LABOR	76.65
10100002	13000007	SEGMENT TOTAL==>	76.65

SEGMENT# 2 C EW192 NA 11/06/23 12/02/23

REPAIRS PER INSPECTION

CORRECTION:

Removed starter to access flywheel, check if engine would turn over

Engine would not turn over

Drained oil and split tractor

Dissambled engine and ordered parts, sent crank to

cranshaft supply, took 3 months to get back

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Kimball	Willmar	Glencoe	St. Martin	Mankato	Alden	St. Cloud
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Started assembling and found the camshaft bearings had to be lined bored to fit the cam.
Called multiple machine shops, A and C in alec was the only one willing to look at it
Dissambled again and sent out to machine shop
Removed the engine block from the pallet, removed the camshaft from the block. Removed the plugs from the oil galley. cleaned the machining debris out of the passages, and the block in general. Cleaned the liner bores and installed the o rings, cleaned up the liners and installed. Turned the block upside down and installed the main bearings, lubed the bearings and installed the crankshaft. Installed the main bearing caps and torqued the bolts. Stood block on end. Cleaned the piston rod assemblies, lubed the rod bearings and installed the piston assemblies. Torqued the bolts. Installed and timed the balancer assembly. Installed the oil pump. Cleaned the lifters and installed, installed the gasket for the front gear train plate, installed the plate and tightened the bolts. Installed the camshaft. Made sure the crank was turned to TDC#1&4, Installed the idler gear shaft, installed and timed the idler gear to the cam and crank. Installed new head gasket, installed the head and torqued the bolts, installed the pushrods and rocker arms. torqued the rocker arm bolts and set the valve lash. Installed new crankshaft seal into the front housing, Installed the flywheel housing and the flywheel. Installed the fuel injectors and hold downs. Installed the fuel pump and timed. Installed the front cover. Put a test fitting into the oil galley, replaced the oil filter and prelubed the engine, verified

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all the main bearing and rod bearings were getting oiled, as well as the cam bearings and rocker arms. Installed the front gear train cover. Installed the oil pan and gasket. Installed new rear seal. Installed the coolant manifold, exhaust manifold, intake manifold, and water pump. Lifted engine primed and painted engine. Installed the fan, pulley, alternator and belt. Bolted engine to the front housing. Installed new pilot bearing into the flywheel, installed new clutch. Installed new throw out bearing. Rolled the front half back to the rear and bolted together. Installed the MFD shaft. Installed the air filter housing, installed new radiator. Ran the wiring harness along and connected. Installed the coolant heater. Filled with coolant. Installed the fuel filter housing and replaced the filters. Added the fuel additive that came with the rebuilt fuel pump, bled the fuel system. Started tractor checked for leaks. Took tractor outside and hooked to the dyno, followed the the break-in procedure in the service manual. Called customer about the fuel leak in the tank. Removed the the RR tire and set on jack stand. Removed the RH fender and found the side of the tank was rusted through in a few spots. Cleaned up the side of the tank and found about 8 spots that were rusted thru, found some fuel tank repair epoxy, mixed up the epoxy and applied to the holes in the tank, and places that looked to be close to be rusted thru. Put a layer of clear silicone over the rest of the tank and let it both dry and set. Reinstalled the fender and tire. Took tractor outside and filled up with diesel to verify if the tank leak was fixed. Tank has not leaked since. When running tractor on the dyno the PTO

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would not start every time, but if the PTO lever was on then a remote was activated the PTO would normally start. Drained the hydraulic oil and found there was water in the system. Removed the hydraulic oil filter on the MCV valve, found a bunch of foam stuck to the filter, Not sure where the foam was coming from, disconnected the Steel lines from the MCV valve and removed the valve. Found more of the foam was laying on he bottom of the transmission housing. Did some looking and found there is a foam seal on the outside of the MCV pump that was missing, order new one. Disassembled the MCV valve to get the water out of it and check the PTO spools. found nothing wrong in the valve or spools. Reassembled the the valve and installed new foam on the pump. Cleaned as much water and foam out of the housing as possible. Reinstalled the MCV valve and reconnected the lines. Installed new oil filter. Removed the seat and found the transmission breather was damaged, possibly letting the water in. Ordered fittings and new breather, mounted the breather away from under the seat to prevent future damage. Refilled transmission oil. Started tractor and tested operation of the PTO, would not work at all. Made a test hose to test the application pressure of the clutch, the clutch was not getting and pressure supplied to it. Checked if any oil was flowing through the oil cooler, there was. Verified that steering, and remote functions worked as they should. Once again removed the MCV valve and completely disassembled, checked for contamination on all the spools, polished a few of them up that were showing some scoring. reassembled the valve. Used the porta power to pump up the pto clutch manually and it was dripping oil down the back

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of the clutch. Removed the MFD clutch housing from the bottom of the tractor, removed the rear cover and pulled the shaft out, letting the PTO clutch down. Disassembled the clutch and inspected. Nothing was wrong with the clutch. Replaced the shaft seal rings and reinstalled the PTO clutch. Reinstalled the MFD clutch and pumped oil back in. Started tractor, tried PTO, still not working. Pulled PTO spool again and disassembled the spool, to verify the small roll pin was not broken. Cleaned the spool again and assembled. Installed the spool and tried again, would not work. Customer talked to Miller repair, and he recommended replacing the complete spool. Ordered one, and after it arrived, installed the spool, and retested. The PTO turned on once, then after shutting it off again it would not restart, regardless of what was tried. Ordered the complete MCV valve, Drained the oil and disconnected the lines, removed the valve. Cleaned up the valve and swapped the pump over to the new valve. Installed the valve, and connected the lines. Pumped the oil back in, started tractor and tested functions, steering, hydraulics and hitch worked but the PTO still did not.

B17680N	AER GLOSS BLACK	12	20.25	243.00
B90960	FITTING 1/8 PLU	1	.92	.92
HTBQ	QT/HY-TRAN BULK	52	4.85	252.20
H434164	COUPLING	1	36.80	36.80
P-11343-2-4	FITTING, HYD HOS	1	29.25	29.25
P-13743-4-4	FITTING, HYD HOS	1	20.00	20.00
P-487TC-4-RL	HOSE/FT, 1/4" TC	1	5.85	5.85
SUBLETL	CLN/TST INJECTR	1	352.58	352.58
SUBLETL	CRANKSHAFT	1	574.32	574.32

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SUBLETL	HEAD REBUILD	1	1399.23	1399.23
SUBLETL	INJECTORS/PUMPS	1	2067.91	2067.91
SUBLETP	SUBLET - PARTS	2	202.79	405.58
	engine machining a&c engine			
ZF	FREIGHT/SHIPPIN	1	85.90	85.90
104256	CRNKSH BALANCER	1 N	555.09	555.09
1058112	5/16 X 1.50"NC	1	.28	.28
1058124	5/16 X 3"NC GR8	2	.50	1.00
1058308	7/16 X 1.5" GR8	1	.61	.61
1058708	BOLT,3/4 X 2" G	1	2.38	2.38
106491	ROD BRNG .010	1 N	166.39	166.39
106608	MAIN BRBG .010	1 N	85.79	85.79
112409	OIL PUMP IH	1 N	311.99	311.99
115343	CLUTCH KIT	1 N	480.99	480.99
1265510C1	FILTER	1	69.05	69.05
130526	REBUILD KIT	1 N	790.39	790.39
1381038	NUT, 5/16 NC GR	2	.17	.34
14457980	O-RING	2	1.65	3.30
1500626C92	CAP-RADIATOR	1	38.50	38.50
1511030	5/16 LW	2	.03	.06
1511040	3/8 LOCK WASHER	1	.05	.05
1515050	7/16 WASHER	6	.07	.42
1515100	WASHER, FLAT 3/	3	.31	.93
1540BQ	QT/15W40 BULK	17	4.35	73.95
17289480	O-RING	1	3.30	3.30
190003559558	RING	1	9.55	9.55
1970904C1	RING	1	17.50	17.50
1971726C1	BREATHER-HYD.	1	18.75	18.75
217-1050	ELBOW 1/8"	1	13.25	13.25
219538	RADIATOR	1 N	536.52	536.52

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2375720	BOLT M12 X 35	1	1.66	1.66
253547A1	GASKET	2 M	38.25	76.50
272142	O-RING	2	1.60	3.20
3055008R2	BEARING CRANKS	1 N	52.85	52.85
3055239R5	GASKET	1 N	58.00	58.00
3132018R2	BUSHING	4 N	20.50	82.00
3218129R1	WASHER	1 M	10.10	10.10
3228133R93	FRT ENG SEAL	1	174.00	174.00
3228677R91	SEAL	16-N	41.75	668.00-
364357C2	3/8 FUEL HOSE/F	2	5.45	10.90
398080R2	FILTER,OIL	1	17.25	17.25
401723R1	RING(INNER) - PTO	1	9.65	9.65
401724R1	RING(OUTER) - PTO	1 M	9.05	9.05
401736R4	GASKET	2 M	27.75	55.50
40308	M10 NUT	1	.13	.13
47393888	HYD FILTER	1	51.25	51.25
47579004	HOSE,5/8"OIL	2	.73	1.46
47984696	O-RING	3	2.45	7.35
530775R93	VALVE	1 N	313.18	313.18
69352C1	SEAL	1 M	61.35	61.35
73344409	IAT PREMIX/1-G	1	14.25	14.25
73344410	IAT PREMIX/2.5G	1	31.50	31.50
84214564	FILTER,FUEL	2	27.94	55.88
86625031	HOSE CLAMP	2	6.05	12.10
87017579	FITTING	2 M	12.05	24.10
87052300	COUPLING 1/4	1	14.60	14.60
87625624	CLAMP, HOSE #10	1	3.55	3.55
88574C1	RING	2 N	18.75	37.50
91765458	LEAK LINE,INJ	1 N	207.20	207.20
94281C92	VALVE	1 N	1185.56	1185.56

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				PARTS	5767.92
				LABOR	4378.85
				SUBLET	4799.62
10100002	13000007			SEGMENT TOTAL==>	14946.39

***** WORK ORDER TOTALS *****	
INTERNAL	CUSTOMER
PARTS	5767.92
LABOR	4455.50
SUBLET	4799.62
SHOP SUPPLIES	75.00
INTERNAL TOTAL	15098.04

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