

Midwest Machinery Co.
 725 Lake Ave. S.
 Paynesville, MN 56362
 Phone: (320) 243-7474



**MIDWEST
 MACHINERY CO**

www.mmcjd.com



JOHN DEERE

Invoice To Account No: 418102

SERVICE INVOICE

NORTH STAR LANDSCAPING INC
 DAVID/ SHAWN NEIMAN/GREFE
 19161 226TH STREET
 RICHMOND MN 56368
 Phone
 Number:

 (320)980-7480

Invoice Number: 9183797
 Invoice Date: 6/3/2022
 Location: 08
 Work Order Number: 764341
 Payment Type: Account

 Page: 1 of 4

Make/Model:	Meter:	Serial Number:	Eq ID:	Fleet No:
JOHN DEERE 4045TF150	5454	PE4045T278957	PE4045T278957	

Gen-1/CP Retail
 COMPLAINT:
 wont start

CORRECTION:

Engine will not start. Removed shield over engine, checked for fuel at injector, had no fuel. Checked for fuel out of pump, no fuel. Checked for fuel to pump from fuel filter, had fuel there. Removed injection pump, installed new pump. Started engine and it ran for about a minute and stopped. Checked for fuel out of new pump, no fuel. Checked for fuel from filter to pump, had fuel there so pump must be defective. Ordered another pump and installed under parts warranty. Removed injectors and tested, all were low and had poor spray pattern. Replaced injectors and packings on return lines. Drained fuel from tank and checked for debris in tank, was clean. Pumped fuel back in and installed another pump under warranty. tested engine again, ran at idle but as soon as it ran at high idle it stopped running.

had to take engine out to see if problem in internal.

Part Number	Description	Quantity	List Price	Extended Price	Taxed Ind
R132874	Washer	1.00	1.65	\$1.65	Y
R51936	PACKING	6.00	1.80	\$10.80	Y
R74012	SEALING WA	4.00	3.20	\$12.80	Y
R79605	WASHER	4.00	2.70	\$10.80	Y
RE48786	INJECTION	4.00	143.09	\$572.36	Y
RE60021	FUEL FILTE	2.00	28.47	\$56.94	Y
RE69781	Fuel Injection Pump	1.00	2,364.89	\$2,364.89	Y
RE69781-CR	CORE for:Fuel Injection Pump	-1.00	300.00	(\$300.00)	Y
Miscellaneous	Description	Quantity	List Price	Extended Price	Taxed Ind
P3750	FREIGHT	1.00	0.00	\$0.00	Y

Labor: \$2,312.31 Parts: \$2,730.24 OL&M: \$0.00 Misc: \$0.00 Sub-Total: \$5,042.55

Gen-2 Retail
 COMPLAINT:
 Engine rebuild

CORRECTION:

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Gen-2 Retail

Removed engine from machine and put on stand. Removed front timing cover, found the bolt for the gear that runs the injection pump and camshaft was loose and gear was siezed to the bushing, the cam gear was coming off the cam. The front cover where the idler gear bolts on, hole was wore out from gear being loose. Removed power clutch, removed flywheel, removed oil pan, removed rocker arms and push rods. Removed head and lifters, removed camshaft and found am bushing was welded to the camshaft. Installed new main bearings, installed new engine oil pump, installed new front plate, new camshaft and lifters. Installed new gear with bushing, washer and bolt. Reassembled front cover, reinstalled flywheel housing. Installed new front and rear engine seals. Reinstalled cylinder head, push rods and rocker arms. Reinstalled pan and all parts that had been removed. Put power clutch back on, installed new injection pump and put engine back into the machine. Installed new engine oil filter and filled with new oil and antifreeze. Ran engine to check operation and checked for leaks. Reinstalled shield over engine.

Part Number	Description	Quantity	List Price	Extended Price	Taxed Ind
19M8997	Screw	1.00	4.63	\$4.63	Y
34H288	SPRING PIN	2.00	1.15	\$2.30	Y
A-R119874	Bushing	1.00	13.82	\$13.82	Y
DZ100057	Oil Pump	1.00	730.89	\$730.89	Y
DZ100057-CR	CORE for:Oil Pump	-1.00	100.00	(\$100.00)	Y
DZ101670	Cam Follower	8.00	9.89	\$79.12	Y
DZ113165	Plate	1.00	289.02	\$289.02	Y
K40015	5/8"LOCKNUT	1.00	1.96	\$1.96	Y
PM37421	SEALANT	1.00	9.00	\$9.00	Y
PM38655	FLEX GASKET	1.00	20.36	\$20.36	Y
R114193	Bushing	1.00	13.87	\$13.87	Y
R115299	Bushing	6.00	10.42	\$62.52	Y
R120641	Shaft	1.00	243.98	\$243.98	Y
R123174	Lock Washer	1.00	23.19	\$23.19	Y
R132518	Plate	1.00	37.67	\$37.67	Y
R136495	GASKET	2.00	6.72	\$13.44	Y
R44302	TIE BAND	6.00	0.25	\$1.50	Y
R61467	O-Ring	2.00	5.35	\$10.70	Y
RE508932	Gear	1.00	601.41	\$601.41	Y

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Make/Model:	Meter:	Serial Number:	Eq ID:	Fleet No:
JOHN DEERE 4045TF150	5454	PE4045T278957	PE4045T278957	

Gen-2 Retail					
RE527042	Gasket Kit	1.00	355.85	\$355.85	Y
RE56375	Camshaft	1.00	740.76	\$740.76	Y
RE56375-CR	CORE for:Camshaft	-1.00	50.00	(\$50.00)	Y
RE59754	OIL FILTER	1.00	15.35	\$15.35	Y
RE65165	BEARING KI	4.00	30.64	\$122.56	Y
RE65168	BEARING KI	1.00	52.08	\$52.08	Y
TY22473	CLAMP	1.00	1.71	\$1.71	Y
TY26577	PREMIX ANTI-FREEZE SHOP (QT)	14.00	3.40	\$47.60	Y
TY26678	15W40+50II SHOP OIL (QT)	14.00	5.34	\$74.76	Y
ZEP	ZEP BRAKE CLEANER	1.00	2.10	\$2.10	Y
<u>Miscellaneous</u>	<u>Description</u>	<u>Quantity</u>	<u>List Price</u>	<u>Extended Price</u>	<u>Taxed Ind</u>
P3750	FREIGHT	1.00	0.00	\$0.00	Y

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JOHN DEERE 4045TF150	5454	PE4045T278957	PE4045T278957	

Gen-2 Retail S3773	FILTER DISPOSAL - 2.50	1.00	2.50	\$2.50	Y
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Labor: \$4,872.00	Parts: \$3,422.15	OL&M: \$0.00	Misc: \$2.50	Sub-Total: \$8,296.65
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Miscellaneous Charges:

Shop Supplies	\$75.00
Environmental Fee	\$25.00

Customer PO No:
Tax Exempt No:
Advisor: 541

Labor:	\$7,184.31
Parts:	\$6,152.39
OL&M:	\$0.00
Misc:	\$102.50
Sales Tax:	\$438.48
Grand Total:	\$13,877.68

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TERMS AND CONDITIONS

Terms are Net 30. A finance charge of 1 1/2% per month (18% annual percentage rate) will be added to all past due invoices except where prohibited by law. All returned checks are subject to a \$30.00 returned check fee.

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Number:

(320)980-7480

Invoice Number: **10787688**

Invoice Date: **2/28/2026**

Location: **08**

Work Order Number: **1052961**

Payment Type: **Account**

Page: **1 of 4**

Make/Model:

Meter:

Serial Number:

Eq ID:

Fleet No:

JOHN DEERE 4045TF150

PE4045T278957

PE4045T278957

Gen- Retail

COMPLAINT:

01 General Repairs based on Inspection

Needs a new radiator

Customer approved repairs

Change engine oil and filters

Change fuel filters

Change air filters

Replace fan belt

Replace bottom radiator hose

Fix leaking or rubbed hyd hoses

Fix leaking hyd fittings

Replace radiator

Fuel transfer pump leaks

Timing cover leaks

Turbo drain hose leaking

Replace thermostat

Replace water pump

CORRECTION:

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JOHN DEERE 4045TF150		PE4045T278957	PE4045T278957	

Gen- Retail

Drained coolant from radiator. Removed radiator shield and unbolted fan shield from radiator. Loosened hose clamps and removed radiator hoses. Removed radiator from truck and unbolted and removed radiator mount. Removed fan shield, unbolted fan and removed fan. Removed engine drive belt. Unbolted fan drive mount and removed it from engine. Removed water pump pulley. Drained engine oil. Changed air filters. Unbolted and removed fuel transfer pump. Opened fuel filter drain and let the fuel rain out. Swapped fitting from old fuel pump to the new pump. Installed new transfer pump onto the engine and reconnected fuel lines. Changed fuel filter and primed the fuel. Unbolted and removed water pump for timing cover. Removed tensioner pulley from engine. Unbolted and removed alternator and supports. Loosened bolts for oil pump and moved it out of the way. Loosened bolts from the oil cooler and moved it out of the way. Loosened and removed bolts and nuts from timing cover. Pried timing cover of the engine carefully. Scrapped and removed old gasket from engine and timing cover. Removed crankshaft oil seal from timing cover. Cleaned the surfaces of the timing cover and engine and oil seal bore. Laid some silicone on and under oil pan gasket. Installed new timing cover gasket. Installed timing cover onto engine. reinstalled nuts and bolts to timing cover and torqued them to specification. Gathered oil seal installation kit. Followed procedure to install the crankshaft oil seal and installed the seal. Removed thermostat housing and remove thermostat. Scrapped gasket and cleaned surface of thermostat housing and on engine. One of the reducer fitting on the thermostat housing broke and hand to try various methods to remove the broken fitting. Installed new thermostat into the thermostat housing. Installed new thermostat housing gasket and reinstalled thermostat housing back onto the engine. Loosened and removed leaking/ damaged hoses. Measured and made new hydraulic hoses. Installed new hydraulic hoses. Changed engine oil filter. Drove to hardware store to get a fitting for the thermostat housing. Installed fitting and reinstalled temperature switch into thermostat housing. Replaced turbo drain hose. Filled engine oil. Topped off hydraulic oil. Removed Cooler and scraped and clean its surface and installed new gasket and reinstalled cooler. Unbolted oil pump and removed old gasket. Installed new gasket and reinstalled oil pump. Installed new water pump gasket and installed new water pump. Reinstalled belt tensioner. Reinstalled alternator support and alternator. Reinstalled crankshaft pulley. Reinstalled Fan drive housing and fan. Installed new radiator and connected hoses. Installed fan shroud. Filled radiator with coolant. Reconnected battery. Drove truck outside and test ran engine for a while. Looked for leaks and didn't find any. Reinstalled all shields. Parked truck on south row.

Part Number	Description	Quantity	List Price	Extended Price	Taxed Ind
DZ111671	Seal	1.00	36.71	\$36.71	Y
DZ118286	OIL FILTER	1.00	22.33	\$22.33	Y
DZ119416	V-BELT	1.00	52.83	\$52.83	Y
DZ120071	Fuel Pump	1.00	98.50	\$98.50	Y
DZ120917	THERMOSTAT	1.00	28.60	\$28.60	Y
R123417	GASKET	1.00	19.87	\$19.87	Y
R128456	RADIATOR H	1.00	42.51	\$42.51	Y
R134465	GASKET	1.00	19.84	\$19.84	Y
R501428	GASKET	1.00	9.80	\$9.80	Y
R502814	GASKET	1.00	2.92	\$2.92	Y

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Gen- Retail					
R504734	O-RING	1.00	4.62	\$4.62	Y
R523182	GASKET	1.00	44.23	\$44.23	Y
RE60021	FUEL FILTE	1.00	24.20	\$24.20	Y
SE501610	WATER PUMP	1.00	440.38	\$440.38	Y
TY22471	CLAMP	2.00	1.58	\$3.16	Y
X10643-12-12	1 1/16 JIC FEMALE	1.00	24.05	\$24.05	Y
X10643-4-4	7/16" JIC FEMALE	8.00	11.32	\$90.56	Y
X10643-8-8	3/4 " JIC FEMALE	2.00	16.04	\$32.08	Y
X13943-12-12	1 1/16 JIC ELBOW	1.00	52.67	\$52.67	Y
X471TC-4-RL	Hydraulic Hose	198.00	0.66	\$130.68	Y
X487TC-12-RL	Bulk Hose	52.00	1.90	\$98.80	Y
X487TC-8-RL	Bulk Hose	32.00	0.91	\$29.12	Y
AR69445	HYGARD SHOP OIL (QT)	142.00	4.75	\$674.50	Y
TY26577	PREMIX ANTI-FREEZE SHOP (QT)	7.00	3.93	\$27.51	Y
TY26678	15W40+50II SHOP OIL (QT)	13.00	5.42	\$70.46	Y
ZEP	ZEP BRAKE CLEANER	4.00	2.10	\$8.40	Y
<u>Miscellaneous</u>	<u>Description</u>	<u>Quantity</u>	<u>List Price</u>	<u>Extended Price</u>	<u>Taxed Ind</u>
S3773	FILTER DISPOSAL - 2.50	1.00	2.50	\$2.50	Y

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Gen- Retail					
S3970F	FIELD TEAM LABOR CREDIT	1.00	0.00	(\$215.00)	N

OL&M Charges:

Description	Value
BUSHING	\$15.46

Labor: \$4,496.67	Parts: \$2,089.33	OL&M: \$15.46	Misc: (\$212.50)	Sub-Total: \$6,388.96
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Miscellaneous Charges:

Shop Supplies	\$67.45
Enviromental Fee	\$18.77

Customer PO No:
Tax Exempt No:
Advisor: 541

Labor:	\$4,496.67
Parts:	\$2,089.33
OL&M:	\$15.46
Misc:	(\$126.28)
Sales Tax:	\$156.89
Grand Total:	\$6,632.07

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