

Ship To:

SAME AS BELOW

Invoice To:

**SERVICE INVOICE**

STK#/FLEET#  
F005489

EXCAVATOR  
350D

HRS PIN/EIN  
X FF350DX805444

WARRANTY DATE

HRS

PARTS  
LABOR  
ENVIROMENTALFEE  
MILEAGE CHARGE  
SHOP SUPPLIES  
SUB TOTAL==>  
IOWA STATE 6%  
WRIGHT CO 1%  
CHARGE SALE

3626.65

X

Customer Signature

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F005489

EXCAVATOR

350D

HRS PIN/EIN

X FF350DX805444

WARRANTY DATE

HRS

SEGMENT# 1 C 199 N/A

02/28/24 02/28/24

HYDRAULIC LEAK

Drove to customers shop in Eagle Grove. Checked into gear box being overfull. Pulled pilot pump to check main seal. That all looked good on pilot pump. Pulled both main pumps and loaded all three into truck. Drove back to shop and ordered parts.

Unloaded all three pumps and resealed input shafts on all three pumps.

Washed and cleaned pumps and loaded back into truck and drove back to customers shop. Installed main pumps and pilot pump. Filled oil in gearbox and topped off hydraulic oil. Ran and tested for leaks.

IFRT	INBND FREIGHT	1
M800650	Packing	4
PEN0734	BRAKE CLEAN	2
0981201	O-RING	6
3097272	SEAL;OIL	1
40M1855	SNAP RING	1
4191664	O RING	2
4506418	O RING	1
4639126	SEAL	2
70013269	15W40 OIL	1

12011000

SEGMENT TOTAL==&gt;

2917.56

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

CONTINUED ON PAGE 02

X

Customer Signature



SAME AS BELOW

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### SERVICE INVOICE

STK#/FLEET#

F005489

EXCAVATOR  
350D

HRS PIN/EIN

12154 FF350DX805444

WARRANTY DATE

HRS

9145787

SPINDLE;ASS'Y

1

1946.01

PARTS

LABOR

SEGMENT TOTAL==>

12011000

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

PARTS

LABOR

ENVIROMENTALFEE

SHOP SUPPLIES

SUB TOTAL==>

IOWA STATE 6%

WEBSTER CO 1%

CHARGE SALE

24617.29

JS

X

Customer Signature

Ship To:

SAME AS BELOW

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## SERVICE INVOICE

STK#/FLEET#		HRS	PIN/EIN	WARRANTY DATE	HRS
F005489	EXCAVATOR	12154	FF350DX805444		
	350D				
HT696	CARRIER ROLLER	3			
IFRT	INBND FREIGHT	6			
NAP303	24V BULB	2			
NAP91314	BRAKLEEN	3			
RE525523	FUEL FILTER KIT	1			
TH109453	SEAL	1			
T77858	O-RING	8			
0373413	RING	4			
0373414	SHIM	2			
0492208	RING;BACK-UP	4			
0836104	BUSHING	2			
0867308	NUT	2			
0962008	O-RING	4			
0975006	PISTON	1			
0981201	O-RING	8			
3033593	COVER;TRANSMISS	1			
3040904	CATCH	2			
40M7178	Snap Ring	1			
4241780	BUSHING	1			
4297381	O-RING	8			
4390776	SEAL	1			
4630525	PILOT FILTER	1			
4630841	A/C HOSE	1			
4648103	BOLT	4			
70013269	15W40 OIL	8			
70013307	SPIRAX HYDRA	3			
70013317	TELLUS S4 46	58			
70013348	SPIRAX 80W90	80			
70013368	PRE-MIX	2			
80802	CLEAR RTV	1			

CONTINUED ON PAGE 04



Ship To:

SAME AS BELOW

Invoice To:

Ship Via

Purchase Order

Salesperson

080

## SERVICE INVOICE

STK#/FLEET#

HRS

PIN/EIN

WARRANTY DATE

HRS

F005489

EXCAVATOR

12154

FF350DX805444

350D

SEGMENT# 1 C 132 N/A

03/09/23 03/10/23

INSPECT FOR REPAIRS

Sadler construction 350dlc check over for repairs.

Removed hydraulic pump to diagnose leak in bell housing and found input shaft, seal to main hydraulic pump leaking.

Found all bolts but two were still holding on pump. Removed broken bolts from bell housing. Installed new seals on pump and put on new drive coupler. Old coupler bolts were not

tight and that caused coupler to slide of shaft which then took out the main pump seal. Set drive coupler and reinstalled pump and mounted with new bolts. Replaced two hydraulic hoses in pump compartment that went to main control valve.

Removed rotary manifold to diagnose leak and found seals were shot and stem is grooved bad. Ordered new stem and seal kit.

Resealed rotary manifold and installed back into machine and hooked up lines.

Pulled left hand boom cylinder to reseal. Removed rod from cylinder and put into cylinder bench. Our bench would not remove nut. Took cylinder out to Murphys and their bench would not touch it either. Took back to shop and cut off old nut with torch and cleaned up threads on rod. Resealed cylinder and put back together and onto machine.

Pulled right hand cylinder down and pulled apart. Put into bench and had same issue with not being able to get nut off. Cut old nut off with torch and cleaned up treads. Ordered new nut and gland. Installed new seal kit and put cylinder back together and back on machine.

CONTINUED ON PAGE 02

Ship To:

SAME AS BELOW

Invoice To:

Salesperson

080

## SERVICE INVOICE

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EXCAVATOR

HRS

12154

PIN/EIN

FF350DX805444

WARRANTY DATE

HRS

350D

Drained hydraulic tank and replaced oil and filter. Oil was black and needed to be changed. Changed engine oil and filter. Changed fuel filters, air filters and cab filters. Took two bad top rollers of right side track and replaced with new. Lifted machine off ground and replaced 2 rollers on undercarriage. Tightened track.

Took left track lose and put two new rollers on undercarriage and one top roller. Tighten tracks and greased whole machine.

Drained and changed oil in final drives and swing motor oil. Replaced bad a/c line to compressor and hooked up a/c machine and charged system.

Replaced broken grease zirk on h-link.

Topped off oil level in final drives and hydraulic tank.

Found left final drive is now leaking after moving machine.

Will need new seal. Customer will wait for this repair.

AT154162	SEAL	6
AT264339	O RING	1
AT264418	O RING	1
AT330978	AIR FILTER	2
AT330980	FILTER	1
AT349831	S/F ROLLER	3
CH16109	PACKING	1
DH400836	HYDRAULIC	1
DZ118283	FILTER KIT	1
FYA00006596	Seal Kit	2
FYA00033065	FILTER	1
FYB00000680	Breather	1
FYB00003277	Coupling	1
F3171R	ORING	8

CONTINUED ON PAGE 03

X

Customer Signature



# Invoice

Date	Invoice #
3/1/2024	3693

Bill To

Ship To

P.O. Number	Terms	Rep	Ship	Via	F.O.B.	Project	
350D JD	CHECK		3/1/2024	pickup			
Quantity	Item Code	Description				Price Each	Amount
2	KM5149A/48	TRACK CHAIN BSL T TYPE					
384	HT529	BOLT					
384	CR5923	NUT					
2	HT804	SPROCKET 350D ZX350					
		Sales Tax					

6978.11



JOHN DEERE

\*\*\* PROFORMA INVOICE \*\*\*

Invoice To Account No: 15002708

Deliver To:

SERVICE INVOICE

Invoice Number:

Invoice Date

08/16/2024

Location:

15

Work Order Number:

507025

Payment Type:

Account

Page:

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Make/Model:

Meter

Serial Number:

EQ Id:

Fleet No:

JOHN DEERE 350D

12911

FF350DX805444

DX805444

TY27845

5G 46 ZINC FREE

\$301.88

Y

Miscellaneous

Description

Extended Price

Taxed Ind

FREIGHT

FREIGHT & SHIPPING

\$153.14

N

Miscellaneous Charges:

Service Accessories

\$250.00

Labor:

Sub-Total:

Please remit payments to Murphy Tractor at the address shown on your monthly statement.

Customer PO No:

Tax Exempt No:

Advisor:

Labor:

Parts:

OL&M:

Misc:

Sales Tax:

Total:

\$17,625.87

Received by: .....

Date: .....





JOHN DEERE

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08/16/2024

Location:

15

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Account

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Make/Model:

Meter

Serial Number:

EQ Id:

Fleet No:

JOHN DEERE 350D

12911

FF350DX805444

DX805444

RUN MACHINE WITH SAME ISSUE.  
CAP OFF TORQUE CONTROL SOLENOID AND RUN MACHINE --PUMP 02 OPERATING BETTER BUT STILL NOT TO SPEC.  
REINSTALL HOSE TO CONTROL SOLENOID.  
REMOVE BOTH HOSES FROM PILOT HYDRAULIC MANIFOLD AND BYPASS MANIFOLD HOOK DIRECTLY TOGETHER.  
RUN MACHINE AND FOUND PUMP 02 OPERATES BETTER THAN LAST TEST BUT STILL NOT TO SPEC.  
REROUTE HOSES BACK TO NORMAL THROUGH PILOT MANIFOLD.  
FOUND PUMP 02 FLOW SOLENOID ADJUSTMENT SCREW LOOSE AND BACKED OUT --TURNED BACK IN TO SPEC AND TIGHTEN JAM NUT.  
OPERATE MACHINE AND RECHECK --SAME ISSUE.  
REMOVE TORQUE CONTROL SOLENOID AND PUMP 02 FLOW SOLENOID ASSEMBLIES FROM PILOT MANIFOLD AND CHECK --NO ISSUES.  
REINSTALL SOLENOIDS.  
CHECKED SERVICE ADVISOR AND FOUND WIRING FOR PUMP 02 FLOW SOLENOID AND TORQUE CONTROL SOLENOID SWAPPED AROUND.  
LOCATE WIRING CONNECTORS TO APPROPRIATE SOLENOIDS.  
RUN MACHINE AND CHECK PUMP 01 AND PUMP 02 CONTROL PRESSURES AND OUTPUT PRESSURES --BOTH IN SPEC.  
DO CYCLE TIMES TEST --MACHINE IN SPEC.  
MACHINE OPERATES NORMALLY AT THIS TIME.

TECH WILL DELIVER FILTER

PartNumber	Description	Quantity	Net Price	Extended Price	Taxed Ind
3033593	COVER	1.00			Y
3081085	Pinion Shaft	1.00			Y
40M7120	SNAP RING	1.00			Y
40M7178	Snap Ring	1.00			Y
4630525	FILTER ELE	1.00			Y
4718274	VALVE	1.00			Y
9213855	Pressure Relief Valve	2.00			Y
9742779	GASKET	1.00			Y
A852122	ADAPTER FI	1.00			Y
AT264339	O-RING	2.00			Y
FYB00001128	BEARING	1.00			Y
FYB00001129	BEARING	1.00			Y
FYB00003277	COUPLING	1.00			Y
PM38657	SEALANT	1.00			Y
PM492140	SEALANT	1.00			Y
TH109453	SEAL	2.00			Y
TY26101	BRAKE CLEAN	3.00			Y
TY26674	PLUS-50II 15W40 CK4/SN 320Z	2.00			Y

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JOHN DEERE

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Invoice Date:

08/18/2024

Location:

15

Work Order Number:

507025

Payment Type:

Account

Page:

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Make/Model:

Meter

Serial Number:

EQ Id:

Fleet No:

JOHN DEERE 350D

12911

FF350DX805444

DX805444

CORRECTION:

DRAIN HYDRAULIC TANK.  
DISCONNECT AND CAP HYDRAULIC HOSES.  
REMOVE EXHAUST SYSTEM.  
REMOVE BOTH HYDRAULIC PUMPS AND GEARBOX ASSEMBLY.  
NOTE: FOUND PUMP DRIVE SHAFT BROKEN OFF IN DRIVE COUPLER.  
CUSTOMER STATED THAT WHEN THEY BOUGHT MACHINE TOP PUMP GEAR-CASE BOLTS WERE GONE AND PUMP HANGING FROM BOTTOM BOLTS.  
SUSPECT SHAFT COMPROMISED FROM PUMP ANGLE AND WEIGHT HANGING ON MAIN PUMP GEAR-SHAFT.  
TAKE PUMPS BACK TO SHOP FOR INSPECTION.  
DISASSEMBLE PUMPS FROM DRIVE SECTION.  
CLEAN UP PARTS AND INSPECT.  
ORDER PARTS.  
INSTALL NEW MAIN DRIVE SHAFT, BEARINGS, SEALS AND REAR QUILL PLATE.  
REASSEMBLE PUMPS TO PUMP DRIVE ASSEMBLY AND RESEAL/TORQUE TO SPEC.  
INSTALL NEW DRIVE COUPLER TO PUMP ASSEMBLY AND TORQUE TO SPEC.  
FILL PUMP GEAR-CASE OIL TO FULL MARK.  
LOAD ASSEMBLY BACK IN TRUCK.  
INSTALL NEW PUMP DRIVE COUPLER ASSEMBLY ON REAR OF ENGINE AND TORQUE TO SPEC.  
REINSTALL PUMP ASSEMBLY IN MACHINE IN REVERSE ORDER.  
INSTALL NEW CROSSOVER RELIEF VALVES IN PROPEL MOTORS WHILE OPERATOR INSTALLING REMAINING SHIELDING.  
REFILL HYDRAULIC TANK AND PERFORM PUMP START UP PROCEDURE --PRIME PUMPS.  
RAN MACHINE AND FOUND NUMBER 02 PUMP NOT RESPONDING CORRECTLY.  
OPERATOR STATED MACHINE IS SLOWER THAN NORMAL.  
OPERATOR DID STATE THAT THEY HAD ISSUES WITH LEFT HAND TRACK NOT RESPONDING PROPERLY --LAGGING BEHIND.  
CHECK PUMP CONTROL PRESSURES AND PUMP OUTPUT PRESSURES FOR PUMPS 01 AND 02.  
FOUND PUMP 01 OPERATING NORMALLY BOTH OUTPUT (5200 PSI) AND CONTROL PRESSURES (580).  
FOUND PUMP 02 CONTROL PRESSURE LAGGING BEHIND AT WOT (60 PSI), AT IDLE PUMP 02 WILL RESPOND NORMALLY.  
CHECK PILOT SYSTEM PRESSURE --600 PSI AT WOT --IN SPEC.  
CHECK PILOT CONTROL PRESSURE AT WOT WITH PILOT CONTROLLERS IN NEUTRAL --149 PSI --IN SPEC GOOD.  
CHECK DTAC FOR ANY KNOWN RELATED ISSUES --COULD NOT ACCESS DTAC, HAD NO CELL SERVICE.  
REMOVE PILOT CONTROL PRESSURE SENSORS AND SWAP FROM TOP TO BOTTOM TO CHECK SENSORS --NO CHANGE -- SENSORS OKAY.  
GO THROUGH PUMP TORQUE CONTROL SOLENOID VALVE TEST PROCEDURE.  
REMOVE HOSE FROM PUMP 01 TORQUE CONTROL AND CAP OFF --RUN MACHINE AND CHECK OPERATION --NO CHANGE.  
REINSTALL HOSE TO TORQUE SOLENOID AT PUMP 01.  
SWITCH HOSE SA AND SB FOR PUMP 01 AND PUMP 02 --MACHINE WILL COME ON-LINE AND OPERATE PUMP 02 NORMALLY -- PUMP 02 IS IN GOOD WORKING CONDITION.  
SWITCH HOSES BACK.  
REMOVE PILOT VALVES FROM SA (01 PUMP) AND SB (02 PUMP) --FOUND VALVES DAMAGED/GALLED.  
CLEAN UP VALVES AND REINSTALL.  
RUN MACHINE AND CHECK OPERATION --SAME ISSUE LOW POWER AND PUMP 02 NOT RESPONDING.  
ORDER NEW PILOT SIGNAL MANIFOLD.  
WENT BACK AND INSTALLED NEW PILOT SIGNAL MANIFOLD.

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[Redacted]

<b>Invoice Number:</b>	
Invoice Date	08/16/2024
Location:	15
Work Order Number:	507025
Payment Type:	Account
Page:	1 of 4

Make/Model:	Meter	Serial Number:	EQ Id:	Fleet No:
JOHN DEERE 350D	12911	FF350DX805444	DX805444	

**/Travel - 1 Retail**

**COMPLAINT:**

01 Travel, to and from field service jobsite

**CORRECTION:**

[Redacted]

<u>Miscellaneous</u>	<u>Description</u>	<u>Quantity</u>	<u>Net Price</u>	<u>Extended Price</u>	<u>Taxed Ind</u>
SURCHARGE	FUEL SURCHARGE	608.00	0.15	\$91.20	N
<b>Labor:</b> [Redacted]			<b>Sub-Total:</b>	<b>\$2,972.40</b>	

**/GOLD PNT INSPECTION Retail**

**COMPLAINT:**

02 Gold Point Inspection

Full multi-point machine inspection performed by qualified technician.

For inspection details see attached inspection report.

**CORRECTION:**

GOLD POINT MACHINE

<b>Labor:</b> \$0.00	<b>Parts:</b> \$0.00	<b>OL&amp;M:</b> \$0.00	<b>Misc:</b> \$0.00	<b>Sub-Total:</b> \$0.00
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**350DLG1289259 Retail**

**COMPLAINT:**

03 HYDRAULIC PUMPS, PUMP DRIVE COUPLER, R&R

**CAUSE:**

PILOT MANIFOLD INTERNAL PARTS GALLED  
PUMP 2 FLOW CONTROL VALVE OUT OF ADJUSTMENT  
SB AND ST (PUMP 2 & TORQUE CONTROL) SOLENOID WIRING REVERSED

CONTINUED ON NEXT PAGE->