



DEERLAND EQUIPMENT

8926 - 120 Street
Fort Saskatchewan, AB T8L 0Z7
Phone: (780) 998-3249 Fax: (780) 998-7075
www.deerland.ca



JOHN DEERE

Ship To: SAME AS BELOW

Invoice To: JEFF PASEMKO
BOX 126
REDWATER AB T0A 2W0

Branch		
FT SASKATCHEWAN *REPRINT*		
Date	Time	Page
07/11/17	20:02:04 (B)	01
Account No	Phone No	Inv No
PASEM003	7808194864	W20994
Ship Via	Purchase Order	
Tax ID No		
		Salesperson
		108

SERVICE INVOICE

STK#/FLEET#		HRS	PIN/EIN	WARRANTY DATE	HRS
0013401A	John Deere 4830 Se	X	1N04830XCB0013401	04/01/12	
	4830			04/01/14	2000 X

REPAIR# 1 C F32 N/A 07/06/17 07/06/17

TIRE SWAP

CORRECTION:

Changed floaters to skinnies. Torqued, drove and re-torqued

ADDITIONAL DESCRIPTION:

change tires

10400000

LABOR	507.50
REPAIR TOTAL==>	507.50

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

LABOR	507.50
SERV ACCESORIES	50.75
SUB TOTAL==>	558.25
#836926121 GST 5%	27.92
CHARGE SALE	586.17

KG

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Branch FT SASKATCHEWAN *REPRINT*		
Date 05/08/20	Time 20:02:40 (B)	Page 01
Account No DTC01001	Phone No	Inv No W30721
Ship Via		Purchase Order
Tax ID No		
		Salesperson 158

SERVICE INVOICE

STK#/FLEET#		HRS	PIN/EIN	WARRANTY DATE	HRS
0013401A	John Deere 4830 Se 4830	3354	1N04830XCB0013401	04/01/12 04/01/14	2000 X

SEGMENT# 1 C A4 XXDTC 03/10/20 04/16/20
DTC UNIT 9.00 HRS

CORRECTION:

- inspect right rear hub, find oil is leaking from around cover and not the wheel seal, clean oil off cover, inspect o-rings on plugs and find drain plug can't be removed, snap ring moved and is in the way, add oil, drive sprayer down road, find oil leaking from cover o-ring
- set up sprayer stand and raise front and rear wheels off ground, inspect wheel bearings, find excessive play in scissor suspension
- drive sprayer to test engine and suspension performance
- spray out: add 200 gallons of water to solution tank, fill rinse tank
- inspect engine, pressurize cooling system and check for leaks, remove engine side shield and inspect fan belt and pulleys
- complete remainder of inspection checklist

ADDITIONAL DESCRIPTION:

*TOLD HIM FREE WASH
*NO PAYMENTS TILL JULY
IF YOU PUSH ON TIRES THERE IS SOME WIGGLE
ALSO THINKS A HUB IS LEAKING
(780) 819-4864
DONT WORRY ABOUT BEND IN BOOM OR PINS IN BOOM.

DTCI	INSPECTION	1	.02	.02
OR014	ORING	1	.52	.52
OR017	ORING	2	.31	.62
			PARTS	1.16

CONTINUED ON PAGE 02

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0013401A	John Deere 4830 Se	3354	1N04830XCB0013401	04/01/12		
	4830	1437		04/01/14	2000 X	
				LABOR		1350.00
10400000				SEGMENT TOTAL==>		1351.16

SEGMENT# 2 C A4 NA 04/20/20 04/20/20
Right Rear Hub Leak 2.00 HRS

CORRECTION:

-with drain plug blocked from removal position wheel to drain oil from add plug
-remove snap ring: using shop snap ring pliers attempt to collapse ring and turn ring, ring doesn't rotate, collapse ring and pry out past drain plug, ring is removed but is too damaged to reuse,
-replace o-ring: pry planetary cover off, remove old o-ring, find o-ring was worn, clean area, insert new o-ring and install cover, install new snap ring and position correctly, replace o-rings on all 3 plugs on cover
-add new oil, allow oil to settle before topping up
-clean area around cover

ADDITIONAL DESCRIPTION:

Hub cover o-ring is leaking
snap ring has moved blocking drain plug, replace snap ring
wheel bearings and seals are in good condition

FRT	FREIGHT	3	4.65	13.95
N316794	Snap Ring	1 N	437.87	437.87
N316797	O-RING	1 N	21.01	21.01
14M7181	NUT	4 N	13.52	54.08
	PARTS			526.91
	LABOR			300.00
10400000	SEGMENT TOTAL==>			826.91

CONTINUED ON PAGE 03

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	4830	1437		04/01/14	2000 X

SEGMENT# 3 C F33 NA 04/20/20 04/20/20

Scissor Suspension Bushings

8.00 HRS

CORRECTION:

I began removing the Castle nuts from the rear Scissors, but the outer nuts on both the LH and RH sides stripped out and

would not come free, so i had to remove both tires in order to get the pins to slide outwards, rather than in. With the Scissors dismantled,

the Bushings and spacers in the Integral Scissors were rusted in place. I tried many times, with lubricants, drivers, hammers and Air hammers, but neither would move.

So we eventually decided to try a Reciprocating saw to cut sections out of the Bushings in order to get them out and that worked out well, So with this new tactic working, we removed the bushings, cleaned the surfaces, applied some Copper coat to the surfaces prior to driving the new Bushings back in. New pins were put into place, shims and new Castle nuts, where needed. The Scissors were pre greased, tightened securely, secured with cotter pins and then greased.

ADDITIONAL DESCRIPTION:

Excessive play in scissor suspension pins and bushings

replace all pins & bushings in rear suspension

replace top & bottom pins and bushings in front suspension

Adjust Scissor Suspension

M28M	WASHER	3
N302245	Rod	8 S
N302247	BUSHING	37
N302269	Bushing	2 N

CONTINUED ON PAGE 04

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	4830	1437		04/01/14	2000 X
11M7032		COTTER PIN		22	
14M7181		NUT		2	
				PARTS	2276.54
				LABOR	1200.00
10400000				SEGMENT TOTAL==>	3476.54

SEGMENT# 4 C A4	NA	04/20/20	04/22/20		
Diagnose Cab Pressure				1.00	HRS
<u>CORRECTION:</u> locate air leaks from 2 rubber seals under the rear window apply silicone inside rubber seals					
<u>ADDITIONAL DESCRIPTION:</u> Cab doesn't pressurize, locate cab leaks and seal					
				LABOR	150.00
10400000				SEGMENT TOTAL==>	150.00

SEGMENT# 6 C A4	NA	04/23/20	04/23/20		
Service Brake Pads					
<u>CORRECTION:</u> Parts are in cab					
<u>ADDITIONAL DESCRIPTION:</u> All rear brake pads have almost no brake lining left, rotors are in good condition					
AN303225		Pad		2	N
				PARTS	719.78
10400000				SEGMENT TOTAL==>	719.78

SEGMENT# 7 C A4	NA	04/23/20	04/28/20		
Scissor Suspension Bushings				8.00	HRS
<u>CORRECTION:</u>					

CONTINUED ON PAGE 05

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	4830	1437		04/01/14	2000 X

Front Scissor Suspension(4.5hrs): set up sprayer stand and raise front wheels, use tread adjust to move wheels out, for both left and right suspension remove cotter pins and castle nuts, slide bottom pin out, drive out 4 bushings and spacer out, clean out bores and drive 4 new bushings in with original spacer, slide new pin in with a larger shim, install castle nuts, slide out middle pin and insert larger shim, slide pin back in and secure with nut, slide out top pin, drive out 4 bushings and spacer, clean out bores and drive 4 new bushings in with original spacer, slide new pin in, install castle nuts, grease scissor suspension, adjust scissor suspension and secure with new cotter pins

-Rear Scissor Suspension: see segment 3

ADDITIONAL DESCRIPTION:

Excessive play in scissor suspension pins and bushings
replace all pins & bushings in rear suspension
replace top & bottom pins and bushings in front suspension
Adjust Scissor Suspension

10400000

LABOR	1200.00
SEGMENT TOTAL==>	1200.00

SEGMENT# 8 C A4	NA	04/23/20	04/23/20	
Right Steering Cylinder Leak				3.00 HRS

CORRECTION:

-remove steering cylinder: disconnect and cap hydraulic hoses, remove cotter pins and back castle nuts off, pry on tie rod ends and strike housing until tie rods break loose, remove cylinder and clean off oil
-disassemble cylinder: find retaining wire is broken inside cylinder, rotate rod guide and pick wire out to remove,

CONTINUED ON PAGE 06

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	4830	1437		04/01/14	2000 X

pull cylinder rod out, remove piston nut, clean parts
 -assemble cylinder: heat piston seal and slide on, install
 remainder of seals, apply loctite and tighten piston nut,
 slide rod in cylinder, secure rod guide with retaining
 wire, cycle cylinder with shop air
 -install cylinder on sprayer, connect hoses, test steering
 and re phase steering cylinder

AN206314	Seal Kit	1 N	158.83	158.83
11M7087	COTTER PIN	2	.90	1.80
			PARTS	160.63
			LABOR	450.00
10400000		SEGMENT TOTAL==>		610.63

SEGMENT# 9 C F33 NA 04/23/20 04/28/20

Adjust Toe-In .75 HRS

CORRECTION:

Bled air from Steering system and then adjusted Toe-in.

			LABOR	112.50
10400000		SEGMENT TOTAL==>		112.50

SEGMENT#10 C A4 NA 04/23/20 04/23/20

Driveshaft Shield Hardware

CORRECTION:

Parts are in cab

ADDITIONAL DESCRIPTION:

Common for hardware to loosen over time, replace hardware with longer bolts and lock nuts

14M7319	LOCK NUT	6	3.12	18.72
19M7790	SCREW	6	3.18	19.08
24H1254	WASHER	6 N	2.02	12.12

CONTINUED ON PAGE 07

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0013401A	John Deere 4830 Se 4830	3354	1N04830XCB0013401	04/01/12		
		1437		04/01/14	2000 X	
				PARTS		49.92
10400000				SEGMENT TOTAL==>		49.92

SEGMENT#11 C A4	NA	04/23/20	04/23/20			
Hazard Lights **1 HOUR MAX					.75 HRS	
<u>CORRECTION:</u>						
remove right console panel and test diode, diode is good						
insert 20 amp fuse for hazard and brake lights, test						
lights, lights and hazard switch work normally						
<u>ADDITIONAL DESCRIPTION:</u>						
covers on RR, RF and LF lights are damaged						
RR and LF lights don't turn on						
AA58907	Lamp	2 N	47.53			95.06
AH164497	LAMP	1	44.43			44.43
			PARTS			139.49
			LABOR			112.50
10400000			SEGMENT TOTAL==>			251.99

SEGMENT#12 C A4	NA	04/23/20	04/28/20			
Diagnose Cab Pressure					1.00 HRS	
<u>CORRECTION:</u>						
see segment 4						
<u>ADDITIONAL DESCRIPTION:</u>						
Cab doesn't pressurize, locate cab leaks and seal						
			LABOR			150.00
10400000			SEGMENT TOTAL==>			150.00

SEGMENT#13 C A4	NA	04/23/20	04/23/20
Auxiliary Fuse			
<u>CORRECTION:</u>			

CONTINUED ON PAGE 08

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0013401A	John Deere 4830 Se	3354	1N04830XCB0013401	04/01/12	
	4830	1437		04/01/14	2000 X

Parts are in cab

ADDITIONAL DESCRIPTION:

replace 30 amp fuse for remove power supply
57M7146 FUSE

1	2.00	2.00
	PARTS	2.00
SEGMENT TOTAL==>		2.00

10400000

SEGMENT#14 C A4 NA 04/23/20 04/23/20

Solution Tank Lid Seal

CORRECTION:

Parts are in cab

ADDITIONAL DESCRIPTION:

seal on lid is ripped, replace
N400680

Gasket

1 N

PARTS

306.15
306.15

10400000

SEGMENT TOTAL==>

SEGMENT#15 C F33 NA 04/23/20 04/23/20

Adjust Boom Inner Fold Cylinders

1.00 HRS

CORRECTION:

The LH Cylinder rod was seized pretty firm on the threads for the adjustment. I had to use some gentle heat from a small Propane torch, a long Snipe and i was then able to get the Rod free and able to adjust the LH Boom to match the RH side. I added 4 shims to the Boom height, but with the many that were already there, i needed to get 4 longer bolts to allow the Stover nuts to lock on the theads.

ADDITIONAL DESCRIPTION:

Jam nuts on inner boom fold cylinders are loose, inner booms don't fold out completely, adjust cylinders

CONTINUED ON PAGE 09

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0013401A	John Deere 4830 Se	3354	1N04830XCB0013401	04/01/12		
	4830	1437		04/01/14	2000 X	
N314067	Shim	4		31.33		125.32
19M7813	SCREW	4		4.49		17.96
				PARTS		143.28
				LABOR		150.00
10400000				SEGMENT TOTAL==>		293.28

SEGMENT#16 C A4 NA 04/23/20 04/23/20
 CHANGE HYDRO/HYDRAULIC OIL AND FILTERS
CORRECTION:
 Parts are in cab
ADDITIONAL DESCRIPTION:
 install reservoir drain hose

AN203010	HYDRAULIC	3	72.96	218.88
	Hydraulic Filter			
	PARTS			218.88
10400000	SEGMENT TOTAL==>			218.88

SEGMENT#17 C A4 NA 04/23/20 04/23/20
 CHANGE PLANETARY HUB OILS
 Parts are in cab
 Oil in right rear hub is already changed

EF10	ENVIRO FEE	7	.10	.70
TY26372	1L 80W-140 GL-5	7	26.70	186.90
	1L 80W140 GL5 Synthetic Gear Oil			
	PARTS			187.60
10400000	SEGMENT TOTAL==>			187.60

SEGMENT#18 C A4 NA 04/23/20 04/23/20
 CHANGE FUEL FILTER
CORRECTION:

CONTINUED ON PAGE 10

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Parts are in cab					
EF50	ENVIRO FEE	2		.50	1.00
RE522878	FILTER ELE	1		42.37	42.37
RE541922	Filter Element	1		44.79	44.79
				PARTS	88.16
10400000				SEGMENT TOTAL==>	88.16
<hr/>					
SEGMENT#19 C A4	NA	04/23/20	04/23/20		
Engine Air Filters					
CORRECTION:					
Parts are in cab					
RE181915	AIR FILTER	1		80.62	80.62
RE196945	AIR FILTER	1		128.39	128.39
				PARTS	209.01
10400000				SEGMENT TOTAL==>	209.01
<hr/>					
SEGMENT#20 C A4	NA	04/23/20	04/23/20		
Air Dryer					
CORRECTION:					
Parts are in cab					
ADDITIONAL DESCRIPTION:					
replace air dryer cartridge and damaged exhaust screen					
AN204967	FILTER ELEME	1		353.57	353.57
AN204970	MUFFLER	1		101.18	101.18
				PARTS	454.75
10400000				SEGMENT TOTAL==>	454.75

***** WORK ORDER TOTALS *****
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Date 05/08/20	Time 20:02:40 (B)	Page 11
Account No DTC01001	Phone No	Inv No W30721
Ship Via		Purchase Order
Tax ID No		
		Salesperson 158

SERVICE INVOICE

STK#/FLEET#		HRS	PIN/EIN	WARRANTY DATE	HRS	
0013401A	John Deere 4830 Se	3354	1N04830XCB0013401	04/01/12		
	4830	1437		04/01/14	2000 X	
				PARTS		5484.26
				LABOR		5175.00
				SERV ACCESORIES		250.00
				SUB TOTAL==>		10909.26
			#836926121	GST 5%		545.52
				CHARGE SALE		11454.78

KG

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Invoice To: JEFF PASEMKO
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Date	Time	Page
06/22/20	20:02:22 (B)	01
Account No	Phone No	Inv No
PASEM003	7808194864	W31827
Ship Via	Purchase Order	
Tax ID No		
		Salesperson
		108

SERVICE INVOICE

STK#/FLEET#		HRS	PIN/EIN	WARRANTY DATE	HRS
0013401A	John Deere 4830 Se	X	1N04830XCB0013401	04/01/12	
	4830	1437		04/01/14	2000 X
SEGMENT# 1 C TODO N/A 06/22/20 06/22/20					
DTC INSPECTION					
CUSTOMER CHOSE NO PAYMENTS NO INTEREST TIL JULY 2020.					
NOW CHARGING CUSTOMERS ACCOUNT. WILL START INTEREST IN JULY.					
ATTACHED COPY OF WORKORDER					
MISCADJUST		W30721	1	10909.26	10909.26
				PARTS	10909.26
10400000				SEGMENT TOTAL==>	10909.26

KG

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

PARTS	10909.26
SUB TOTAL==>	10909.26
#836926121 GST 5%	545.46
CHARGE SALE	11454.72

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Tax ID No		
		Salesperson
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0013401A	John Deere 4830 Se	X	1N04830XCB0013401	04/01/12	
	4830	1437		04/01/14	2000 X
SEGMENT# 1 C TODO N/A					
DTC INSPECTION W30721					
REVERSAL W30721					
MISCADJUST		W30721	1-	10909.26	10909.26-
				PARTS	10909.26-
10400000			SEGMENT TOTAL==>		10909.26-

KG

***** WORK ORDER TOTALS *****			
PARTS			10909.26-
SUB TOTAL==>			10909.26-
#836926121	GST	5%	545.46-
CHARGE SALE			11454.72-

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09/06/23	20:02:10 (B)	01
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Tax ID No		
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SERVICE INVOICE

STK#/FLEET#		HRS	PIN/EIN	WARRANTY DATE	HRS
0013401A	John Deere 4830 Se	X	1N04830XCB0013401	04/01/12	
	4830	1437		04/01/14	2000 X

SEGMENT# 1 C F53 N/A 09/04/23 09/05/23

EXTRACT BOLT

CORRECTION:

- remove broken bolt from hydraulic ram

10400000

LABOR	94.60
SEGMENT TOTAL==>	94.60

***** WORK ORDER TOTALS *****	
LABOR	94.60
SERV ACCESORIES	9.46
SUB TOTAL==>	104.06
#836926121 GST 5%	5.20
CHARGE SALE	109.26

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SERVICE INVOICE

STK#/FLEET#		HRS	PIN/EIN	WARRANTY DATE	HRS
0013401A	John Deere 4830 Se	4107	1N04830XCB0013401	04/01/12	
	4830	1437		04/01/14	2000 X

SEGMENT# 1 C F58 N/A 02/02/24 03/15/24

DIAGNOSE AND QUOTE

COMPLAINT:

Diagnose and quote

- Engine codes and issues for fuel
- Boom height sensors
- Tread cylinder/hoses leaking rh side
- Air bag leaking rh side
- Electrical issue with lights

CAUSE:

Mar 18

Hours 4107

- Tread adjust rh side is leaking oil from in housing
- Air bag rh front is leaking
- RH front air valve for air bag is leaking from 90 fitting
- Hazard lights are coming on separately
- Checked rear brake lights and they are shorting out in bulb to cause hazards to come on
- Engine codes are on cluster

CORRECTION:

Mar 15 2024

Hours 4107

- Went out to unit and checked fluid levels, engine oil, coolant and hydraulic oil levels are good
- Went to start unit and found no display
- Talked to service manager and found out customer has display and he will bring it in
- Started unit and let warm up
- Backed unit up and took to wash bay to wash down front

CONTINUED ON PAGE 02

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	4830	1437		04/01/14	2000 X

right axle so to do inspection for leak on tread
cylinder/hoses

- Backed unit out of wash bay and ran unit up to temp in yard and worked tread in and out on axles
- Brought unit into shop and placed pail under unit to catch oil leaking out of front rh axle
- Inspected into front rh axle for oil leak and can not determine is the cylinder gland has failed or if hose has failed, will quote for both to be repaired
- Started unit and aired up air system and air bags
- Sprayed rh front air bag lines and valve with soapy water, air leak is coming from a 90 fitting coming out of air bag
- Tested other 3 air bag lines and valves with soapy water, no leaks found
- Mar 18 2024
- Took line off from rh air bag to rh air valve, 90 fitting going into valve was only on by one thread
- Applied thread dope to 90 fitting threads and straight fitting threads
- Installed 90 fitting on air valve and tightened
- Installed straight fitting in air bag and tightened
- Gave dope time to set, started to check out hazard lights issue
- Read up on service bulletin on issue
- Checked turn signal light bulbs front and rear, bulbs are good
- Checked rear brake light bulbs and they are burnt out and rh brake bulb has the element for the hazards lights touching the brake element, that is most likely the issues
- With rear brake bulb out, keyed on power and hazards are

CONTINUED ON PAGE 03

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0013401A	John Deere 4830 Se	4107	1N04830XCB0013401	04/01/12	
	4830	1437		04/01/14	2000 X

staying off

- Will quote for brake light bulbs replace
- Looked up codes off monitor and codes 1347.07 was there
- Looked up codes on Service Advisor and steps for diagnoses
- Note in manual is to checked fuel filters and ensure that they do not need servicing
- Checked fuel filters and they look like they have been there for some time, no hours marked on fuel filters
- Checked battery voltage, with engine off batteries are at 11.47V, engine on batteries are at 13.3V, Advisor is wanting above 10V, batteries are good
- Next step was to start unit, unit started without issue
- Next step was to check the message center on monitor to ensure ECU, ACU and CCU are reading messages
- ECU, ACU and CCU are all reading and counting messages as they should
- Next step is to check for any other codes on unit, looked through monitor and there are no codes other than the 1347.07, cleared that code
- In the same step it required a engine harness test
- Hooked up EDL and preformed a engine harness test, test passed
- Next step is asking if unit has low power
- Started unit and took out to street for loading up the unit
- Drove to end of street and turned unit around
- Went to full throttle and hydrostatic level to full and geared up to 4th
- Engine load went to 100% and 30MPH and once at full speed engine load went down to 80%

CONTINUED ON PAGE 04

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SERVICE INVOICE

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0013401A	John Deere 4830 Se	4107	1N04830XCB0013401	04/01/12	
	4830	1437		04/01/14	2000 X

-Turned unit around and tested engine load and unit speed again, 100% engine load till 30MPH and then load down to 80%

-At the end of second test code 1347.07 came back up

-Ran test 2 more times and code did not come back

-Brought unit back up to shop and test harness again 2 more times, passed each time

-Took harness connector off common rail sensor and inspected for corrosion, none found in sensor or connector

-Brake cleaned connector and blow connector out, applied dielectirc grease to connector on pins and plugged connector back onto sensor

-Ran unit to street again and ran load testing on engine again, code 1347.07 again 1 time in testing

-Suspecting fuel filters are plugged and needing changing

-Updated story

-Back unit away from shop and folded out sprayer booms and lowered them down to the ground

-LH boom sensor is not reading

-Tested for power at lh ground sensor, power is reading 13.3V with engine running, 2.5V on can high and can low

-Turned unit off

-Swapped lh sensor from lh side to rh side and rh sensor from the right to the left

-Took pics of the serial# on sensor to know which sensor is reading on monitor

-Started unit and watched monitor, rh sensor on the lh boom is reading, lh sensor on the rh boom is not reading

-Swapped sensors back

-Folded booms back into unit and set booms into transport

CONTINUED ON PAGE 05

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0013401A	John Deere 4830 Se	4107	1N04830XCB0013401	04/01/12	
	4830	1437		04/01/14	2000 X

brackets

-Drove unit back into yard waiting to get repairs okay

-Updated story

-Made quote

Mar 19 2024

-Started unit outside and let warm up some, dove unit up to shop

-Changed out fuel water separator filter and primary filter on engine

-Primed fuel system

-Took unit out on street and ran engine up to high idle and roading to max speed for 20 minutes

-No codes came up and unit is running good

-Cut open water separator and primary fuel filters that came off unit, water separator is half black and primary filter is black from either not being changed or dirty fuel

ADDITIONAL DESCRIPTION:

**quote all repairs

-engine, installed new fuel rail and rail pressure sensor, because of code ecu 1307.47 rail pressure sensor code, almost like it's missing

-boom height sensor keeps missing

-front rh ram of axel for width is leaking

-above front rh air bag fitting leaking

-fuse for brake lights and flashers is disconnected because when connected and sitting in air seat it makes the flashers go, possibly pinched wire, happens more often when seat is lower

DTCI	INSPECTION	1	.02	.02
EF100	ENVIRO FEE	1	1.00	1.00

CONTINUED ON PAGE 06

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0013401A	John Deere 4830 Se	4107	1N04830XCB0013401	04/01/12		
	4830	1437		04/01/14	2000 X	
EF50	ENVIRO FEE	1		.50		.50
RE522878	FILTER ELE	RETAIL		58.38		
		1		51.37		51.37
RE541922	Filter Element	RETAIL		58.34		
		1		51.34		51.34
				PARTS		104.23
				LABOR		1416.00
10400000				SEGMENT TOTAL==>		1520.23

SEGMENT# 2 C F58 NA 03/19/24 03/20/24
RH front thread adjustment cylinder and hoses leaking 7.00 HRS

COMPLAINT:

RH front tread adjustment cylinder and hoses leaking

CAUSE:

Mar 25 2024

-Hydraulic oil is leaking out from front rh tread axle area
-Hydraulic oil is leaking out from blown out gland seal
-Threads on rod cross threaded when removing the piston nut
and rod is not sold separately, only the full cylinder or
seal kits

CORRECTION:

Mar 20 2024

Hours 4107

-Went out to unit and checked fluid levels, they are good
-Started unit and brought into shop and set up for rh tread
axle removal
-Marked hoses going to rh front drive motor and removed,
capped off hoses and fittings, leaving drain hose to remove
tomorrow
-Marked harness for drive motor and unplugged and moved out

CONTINUED ON PAGE 07

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	4830	1437		04/01/14	2000 X

of the way

-Marked and removed rh front tread cylinder hoses from control valve and pulled hoses up to the front of the unit, capped out hoses and fittings

-Unbolted drive motor hose mounts from rh front tread axle mounts

Mar 21 2024

-Removed drain hose from motor and capped off

-Finished removing hose mounts and moved all hoses away from rh front axle

-Unplugged rh front light and removed air line from air bag and removed air valve, moved air valve and harness from rh front axle

-Loosened off tread adjustment shims

-Got forklift and jack stand, lifted front rh side up and placed the jack stand under axle

-Chained wheel to mast of forklift and slowly started to pull front rh inner axle out of outer axle

-inner axle got hung up and would not pull out, pushed inner axle back in 2"

-Top from axle shim came out, rear top shim would not come out

-Took out adjustment bolts for rear top shim and found that the inner most bolt is broken off just past the threads on outer axle and hanging up on inside threads and shim

-Maneuvered inner axle with forklift and pry bars and was able to get broken piece unstuck from outer axle threads

-Pulled inner axle all the way out of outer axle slowly and guided cylinder hoses out with axle

-Unpinned tread cylinder from inner axle and pulled out

CONTINUED ON PAGE 08

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cylinder

- Inspected hoses and hoses are undamaged and no signs of leaking
 - Marked hoses and removed hoses from cylinder
 - Oil is looking like it is leaking from front of cylinder, took fittings out and inspected, fitting o-rings are in good sharp
 - Ordered new seal kit and bolt for tread adjustment,
 - Slid inner axle back in outer axle so to not have suspended load on the forklift till parts come in
 - Unchained wheel from mast and returned forklift
 - Drained oil from cylinder rod end and barrel end
 - Took snap ring off from gland and pushed gland into barrel just past inner groove
 - Cleaned up inner surface of barrel and installed removal ring into barrel
 - Tapped out gland from barrel and pulled out rod from barrel
 - Secured rod pin point in vice and started to remove piston nut
 - Nut spun to the end of the thread and jammed up, threads are cross threaded and will not remove
 - Checked with parts to see if a new rod can be ordered, seal kits or new cylinders are the only thing you can get
 - Ordered new cylinder and canceled gland seal kit
 - Cleaned up tools and area
 - Updated story
- Mar 25 2024
- Got forklift and chained front rh tire back onto mast
 - Slowly back forklift and inner axle out of out axle sleeve

CONTINUED ON PAGE 09

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SERVICE INVOICE

STK#/FLEET#		HRS	PIN/EIN	WARRANTY DATE	HRS
0013401A	John Deere 4830 Se	4107	1N04830XCB0013401	04/01/12	
	4830	1437		04/01/14	2000 X

and set forks on ground

-Removed tread adjustment shim bolts that are still in and chased all treads for tread adjustment bolts

-Applied anti-seize to axle threads and bolt threads and threaded in the 5 old and 1 new tread shim bolts with jam nuts on them

-Cleaned inner axle mating surfaces for tread shims

-Got new tread cylinder and put in bench vice

-Swapped fittings over from old cylinder barrel to new cylinder

-Installed tread hoses to cylinder

-Slid cylinder into inner axle and pinned rod end into inner axle

-Lifted inner axle and slowly slid into outer axle, stopped mid way and installed the 2 shims, ensured hoses were not pinched or damaged upon install, and finished sliding inner axle into outer axle

-Pinned barrel end of tread cylinder onto sprayer frame

-Adjusted shims for inner axle

-Lifted unit up and removed jack stands and set unit back on ground

-Finished adjusting shims of rh front trad

-Ran hydraulic lines back into place and secured hose mounts back to outer axle and wheel hub

-Installed drain line and secured hose clamp

-Installed drive lines to drive motor

-Installed park brake line and speed sensor harness

-Connected tread cylinder lines to control valve

-Installed turn cylinder lines, connected field light

harness and connected air bag line and mounted air valve

CONTINUED ON PAGE 10

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Ship To: IN STORE PICKUP

Invoice To: JEFF PASEMKO
BOX 126
REDWATER AB T0A 2W0

Branch FT SASKATCHEWAN		
Date 03/25/24	Time 20:01:49 (B)	Page 10
Account No PASEM003	Phone No 7808194864	Inv No W43802
Ship Via		Purchase Order
Tax ID No		
		Salesperson 171

SERVICE INVOICE

STK#/FLEET#		HRS	PIN/EIN	WARRANTY DATE	HRS
0013401A	John Deere 4830 Se	4107	1N04830XCB0013401	04/01/12	
	4830	1437		04/01/14	2000 X

again

- Secured harnesses, air lines and hydraulic lines again
- Started unit and ran outside
- Ran rh front tread in and out and cylinder is moving in and out easily
- Stopped and inspected unit for leaks, no leaks found
- Checked hydraulic level, level is good
- Parked unit in repair line for a quick wash before the customer gets it back
- Cleaned up tools and work area
- Updated story

ADDITIONAL DESCRIPTION:

Oil leaking from rh front thread adjustment cylinder/hoses, due to confined space can not see exactly what it is without pulling front rh axle slide out. Quote for cylinder and hoses and replace what is needed

AHC12284	Hydraulic Cylin	1 N	1908.23	1908.23
AHC16970	Hydraulic Cylin	1	134.48	134.48
	Hydraulic Cylinder Kit			
FRT	FREIGHT	3	16.83	50.50
H224073	TIE BAND	10	3.13	31.30
N317903	SCREW	1 N	18.35	18.35
R44302	TIE BAND	18	.85	15.30
	PARTS			2158.16
	LABOR			1239.00
10400000	SEGMENT TOTAL==>			3397.16

SEGMENT# 3 C F58 NA 03/19/24 03/19/24

Hazard lights coming on, change brake lights

2.00 HRS

COMPLAINT:

CONTINUED ON PAGE 11

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Account No	Phone No	Inv No
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Tax ID No		
		Salesperson
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SERVICE INVOICE

STK#/FLEET#		HRS	PIN/EIN	WARRANTY DATE	HRS
0013401A	John Deere 4830 Se	4107	1N04830XCB0013401	04/01/12	
	4830	1437		04/01/14	2000 X

Hazard lights shorting in bulb to cause hazards to come on

CAUSE:

Mar 20 2024

Hours 4107

-Hazard lights are coming on due to short in damaged brake light bulbs and causing hazards to come on

CORRECTION:

Mar 20 2024

Hours 4107

-Got the new light bulbs from parts

-Unit is outside of shop, took brake light covers off

-Replaced lh and rh brake light bulbs

-Installed brake covers back on

-Tested hazard light issue throughout doing other repairs, hazards are working good and not coming on, on there own

-Cleaned up tools and area

-Updated story

Mar 25 2024

-Ran unit outside after other repairs were done, hazard lights and brake lights are working and not turning on by themselves

-Updated story

ADDITIONAL DESCRIPTION:

Hazard lights are coming on due to brake lights shorting out in bulb and completing circuit, replace bulbs

AR48041	BULB	2	6.51	13.02
	PARTS			13.02
	LABOR			354.00
10400000	SEGMENT TOTAL==>			367.02

CONTINUED ON PAGE 12

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SERVICE INVOICE

STK#/FLEET#		HRS	PIN/EIN	WARRANTY DATE	HRS
0013401A	John Deere 4830 Se	4107	1N04830XCB0013401	04/01/12	
	4830	1437		04/01/14	2000 X

SEGMENT# 4 C F58 NA 03/19/24 03/20/24

LH boom height sensor has failed 2.00 HRS

COMPLAINT:

LH boom height sensor has failed

CAUSE:

Mar 21 2024

Hours 4107

-LH boom sensor has failed internally from use

CORRECTION:

Mar 2024

Hours 4107

-Ordered new boom sensor

-Unbolted and unplugged old sensor from lh boom

-Took pic of serial# of sensor

-Plugged in new sensor and mounted to lh boom

-Keyed on unit power and waited for monitor to boot up

-Programmed new sensor to lh boom

-Tested boom sensor, boom sensor is reading when hand is in from out sensor, will test with booms folded out when unit can run again

-Cleaned up tools and area

-Updated story

Mar 25 2024

-Unit is put back together from other repairs, took out and tested boom height sensors

-Sensors are working, lh, center and rh sensors are reading height

-Updated story

ADDITIONAL DESCRIPTION:

LH boom height sensor has failed, replace

CONTINUED ON PAGE 13

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		Salesperson 171

SERVICE INVOICE

STK#/FLEET#		HRS	PIN/EIN	WARRANTY DATE	HRS	
0013401A	John Deere 4830 Se	4107	1N04830XCB0013401	04/01/12		
	4830	1437		04/01/14	2000 X	
AN304552	SENSOR		1 N	2569.45		2569.45
FRT	FREIGHT		1	14.23		14.23
				PARTS		2583.68
				LABOR		354.00
10400000				SEGMENT TOTAL==>		2937.68

SEGMENT# 5 C F58 NA 03/19/24 03/19/24 .75 HRS

Add boom shims

COMPLAINT:

Add boom shims

CAUSE:

Mar 20 2024

Hours 4107

-Boom shims wearing out from use of unit and making locking boom in cradle difficult

CORRECTION:

Mar 20 2024

Hours 4107

-Started unit and folded out inner booms and lowered booms to ground

-Unbolted each side, installed 2 shims per side and bolted boom shims back into place

-Tightened boom shim hardware to torque spec

-Ran unit and tested folding inner booms in and out, booms are entering and exiting cradles much better now

-Pulled unit back up to shop for other repairs

-Cleaned up tools and work area

-Updated story

ADDITIONAL DESCRIPTION:

Difficult to fold in booms, booms not clearing the cradle,

CONTINUED ON PAGE 14

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SERVICE INVOICE

STK#/FLEET#		HRS	PIN/EIN	WARRANTY DATE	HRS
0013401A	John Deere 4830 Se	4107	1N04830XCB0013401	04/01/12	
	4830	1437		04/01/14	2000 X
add shims for more clearance					
N314067	Shim		4	43.78	175.12
				PARTS	175.12
				LABOR	132.75
10400000			SEGMENT TOTAL==>		307.87

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

PARTS	5034.21
LABOR	3495.75
SERV ACCESORIES	250.00
SUB TOTAL==>	8779.96
#836926121 GST 5%	438.94
CHARGE SALE	9218.90

KG

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Date	Time	Page
07/25/24	20:01:53 (B)	01
Account No	Phone No	Inv No
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SERVICE INVOICE

STK#/FLEET#		HRS	PIN/EIN	WARRANTY DATE	HRS
0013401A	John Deere 4830 Se	4122	1N04830XCB0013401	04/01/12	
	4830	4129		04/01/14	2000 X

SEGMENT# 1 C A4 N/A 05/21/24 05/21/24

FUEL CODE

COMPLAINT:

ECU 1347.07 message would frequently appear during spraying last year, lots of debris found in tank. Fuel tank has been pressure washed out, tank has a new fill cap/plug, filled with new fuel, fuel filters changed, new fuel rail with pressure sensor and pressure limiter valve. ECU 1347.07 messages still frequently appear on display and needs to be cleared each time to view or use display.

CORRECTION:

05/21: pick up parts and drive to sprayer
-connect laptop and view codes, start engine, clear codes, engine runs good
-drive sprayer in field while monitoring fuel rail pressure, half way down field ECU 1347.07 became active, drive sprayer back and go over diagnostic procedure, notice engine still has the original suction control valve, have a new valve on service truck
-clean area, unplug, unbolt and pry out old valve suction control valve, attempt to replace valve but the new part was incorrect, verify with parts that the new valve was for a different high pressure fuel pump
-install old valve, cycle key to prime fuel system, start engine, verify engine runs okay and sprayer is mobile
-drive back to shop
05/22: pick up correct valve and drive to sprayer
-install new suction control valve: clean area, unplug connector, unbolt and pry old valve out, assemble new valve

CONTINUED ON PAGE 02

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Account No	Phone No	Inv No
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SERVICE INVOICE

STK#/FLEET#		HRS	PIN/EIN	WARRANTY DATE	HRS
0013401A	John Deere 4830 Se	4122	1N04830XCB0013401	04/01/12	
	4830	4129		04/01/14	2000 X

with adapters and install, torque mounting screws to spec
-start engine, clear codes, engine running good, drive down field, after about 1/2 mile engine started to run rough and loose power, ECU 1180.00 became active with engine derated, make recording on laptop, turn off engine, allow engine to cool off after 10 minutes and start, clear codes, engine runs good with no codes, drive sprayer and monitor sensor readings, find manifold air temperature reaches 135°F when code was triggered, drive sprayer and find code became active again at 86°F with engine derated. Turn engine off and allow it to cool down after 10 minutes, drive back
-Diagnose ECU 1180.00: confirm engine air filter is not plugged and looks recently replaced, tighten hose clamps on intake especially around charge air cooler, can't find any leaks, inspect turbo by loosening clamps and prying boot back, might be slightly more play in shaft but blades don't contact housing and spin freely, no side to side play, install boot back on turbo, inspect VGT turbo and verify actuator linkage is good, locate 4 temperature sensors on engine, remove, plug back into harness hand hang in the open, view sensor readings, find manifold air temperature is slightly greater than 9°F than the other 3 sensors, determine sensor needs to be replaced, install all 4 sensors back in original locations, view readings on manifold air pressure sensor and find there is 1.7 PSI difference to estimated pressure with the spec at 1.5 PSI
-notice final fuel filter is installed incorrectly with the bottom dented in, remove filter and inspect filter head for damage
-once parts arrived replace final fuel filter and install

CONTINUED ON PAGE 03

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07/25/24	20:01:53 (B)	03
Account No	Phone No	Inv No
PASEM003	7808194864	W44712
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		Salesperson
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SERVICE INVOICE

STK#/FLEET#		HRS	PIN/EIN	WARRANTY DATE	HRS
0013401A	John Deere 4830 Se	4122	1N04830XCB0013401	04/01/12	
	4830	4129		04/01/14	2000 X

correctly, cycle key to prime fuel system
-replace manifold air temperature sensor
-connect laptop, view readings and drive sprayer down field,
after about half a mile ECU 1347.07 appeared, start recording and notice a difference of about 2000 PSI between actual and desired fuel rail pressure, spec is below 750 PSI, code appeared several more times in the last half mile, need to clear message in order to view and use display
-diagnose ECU 1347.07: briefly look over low pressure fuel system, engine runs good with actual and desired pressures close for at least 1/4 mile, disconnect fuel return lines from pressure limiter, did not have correct cap so tape off return fitting, connect clear hose to pressure limiter, run engine and warm up for 5 minutes then rapidly move throttle to high idle and back to low idle, no in plastic hose which indicates new pressure limiter is working good, connect return line and return to normal, determine there could be debris in the system, with new fuel filters, suction control valve, fuel rail, pressure sensor and pressure limiter valve not sure why code still appears, recommend sprayer to come to shop for a fuel flush and test high pressure fuel pump
-drive back to shop

ADDITIONAL DESCRIPTION:

Code for fuel system is back
Unit is spraying south of redwater around 570 and 221
call 780 819 4864

DZ111137	Control Valve	1	930.28	930.28
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CONTINUED ON PAGE 04

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Account No PASEM003	Phone No 7808194864	Inv No W44712
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Tax ID No		
		Salesperson 171

SERVICE INVOICE

STK#/FLEET#		HRS	PIN/EIN	WARRANTY DATE	HRS	
0013401A	John Deere 4830 Se	4122	1N04830XCB0013401	04/01/12		
	4830	4129		04/01/14	2000 X	
EF100		ENVIRO FEE	1	1.00		1.00
RE522823		TEMPERATURE	1	124.79		124.79
	Temperature Sensor					
RE522878		FILTER ELE	1	58.38		58.38
				PARTS		1114.45
				LABOR		2614.29
10400000				SEGMENT TOTAL==>		3728.74

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

PARTS	1114.45
LABOR	2614.29
SERV VEH #7	250.00
SUB TOTAL==>	3978.74
#836926121 GST 5%	198.89
CHARGE SALE	4177.63

GR

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04/22/25	20:01:31 (B)	01
Account No	Phone No	Inv No
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SERVICE INVOICE

STK#/FLEET#		HRS	PIN/EIN	WARRANTY DATE	HRS
0013401A	John Deere 4830 Se	4321	1N04830XCB0013401	04/01/12	
	4830	4129		04/01/14	2000 X

SEGMENT# 1 C A4 N/A 03/03/25 03/03/25

Code for fuel system is back

CORRECTION:

filled flat tire with air.
moved unit from storage to shop.
connected fuel system flushing kit to unit.
flushed fuel system
ran two bottles of flush through the unit.
no debris was found.
connected the fuel system back to factory.
brought unit up to the shop from cold storage.
let fuel system bleed down.
removed injection pump.
wrapped and packaged in box.
set pump near bay 1 to be shipped out and get tested.
A4 04/10: reviewed diagnostics since last spring, unplug,
clean and inspect connectors for suction control valve,
fuel rail pressure sensor and ECU, test 5 circuits for
continuity, load test with 5 amps, resistance and voltage
drops are within spec, all 5 circuits tested good
-clean out remaining 3 connectors for fuel injection pump
-replace suction control valve terminals and connector body
on ECU harness side
-install high pressure fuel injection pump: unpack box and
find adapter plate removed, lubricate o-ring and bolt
adapter plate to pump, torque bolts to spec, install
camshaft position sensor to adapter plate, install drive
gear, apply blue Loctite to nut, hold in vise and torque to
spec, lubricate O-rings, lift pump into place, take out

CONTINUED ON PAGE 02

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0013401A	John Deere 4830 Se	4321	1N04830XCB0013401	04/01/12	
	4830	4129		04/01/14	2000 X

several times to turn drive gear to line up timing mark,
torque nuts to spec, connect high pressure fuel lines, low
pressure and return lines to pump, plug in connectors
04/11: once parts arrived replace fuel rail pressure sensor
terminals and connector body on ECU harness side
-cycle key several times to prime fuel system
-start engine, notice large fuel leak from fuel rail, turn
off engine, confirm all fuel lines are tight, start engine
and locate leak coming from a high pressure steel line
closest to the fuel rail pressure sensor on the fuel rail,
remove line and inspect for damage, noticed line is bent
and difficult to line up to fittings, install line with
flare end square to fitting but there was still lots of
fuel leaking out, help parts order new line
03/14: once parts arrived replace the 2 high pressure lines
between fuel rail and pump, start engine no leaks
-connect laptop and drive sprayer down road several times,
no codes, engine runs good, no fuel leaks

AT322214	FILLER CAP	1	32.72	32.72
DZ104988	Fuel Line	1 N	119.91	119.91
DZ104989	Fuel Line	1 N	119.56	119.56
FRT	FREIGHT	1	12.41	12.41
R51936	PACKING	3	3.29	9.87
57M13604	Elec. Connector	1 M	15.09	15.09
	Elec. Connector Housing			
57M7833	Elec. Connec	4	1.69	6.76
	Elec. Connector Seal			
57M8135	Elec. Connec	2	1.83	3.66
	Elec. Connector Terminal			
57M8403	Elec. Connector	1	12.46	12.46

CONTINUED ON PAGE 03

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JOHN DEERE

Ship To: IN STORE PICKUP

Invoice To: JEFF PASEMKO
BOX 126
REDWATER AB T0A 2W0

Branch		
FT SASKATCHEWAN		
Date	Time	Page
04/22/25	20:01:31 (B)	03
Account No	Phone No	Inv No
PASEM003	7808194864	W47379
Ship Via		Purchase Order
Tax ID No		
		Salesperson
		108

SERVICE INVOICE

STK#/FLEET#		HRS	PIN/EIN	WARRANTY DATE	HRS
0013401A	John Deere 4830 Se	4321	1N04830XCB0013401	04/01/12	
	4830	4129		04/01/14	2000 X
	Elec. Connector Housing				
57M8404	Elec. Connector	2		1.78	3.56
	Elec. Connector Terminal				
57M8417	ELEC. CONN	1		3.13	3.13
	Elec.Connect Locking Device				
57M8558	Elec. Connec	1 M		1.32	1.32
	Elec. Connector Terminal				
57M8568	Elec. Connec	1 M		1.69	1.69
	Elec. Connector Seal				
			PARTS		342.14
			LABOR		1899.95
10901001			SEGMENT TOTAL==>		2242.09

SEGMENT# 3 C A4 N/A 03/03/25 03/03/25

left boom doesn't clear cradle

CORRECTION:

-fold booms out and back in, confirm left inner boom
scrapes on the top of the cradles, fold out booms and lower
-find there was a large amount of shims already in place, 8
shims on right side and 10 shims on left side, unbolt left
shim pack, was able to pry center boom away and fit one
more boom shim, could not fit a second one, bolt shim pack
together
-fold booms in and find there is much more clearance on
left side, boom no longer contacts cradle
*if inner booms contact cradle again the 2 lower lift arms
will need to be replaced with AN402423 which are shorter
lift arms as per DTAC solution #80006
*noticed right boom wedge link is damaged and should be
replaced*

CONTINUED ON PAGE 04

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Branch FT SASKATCHEWAN		
Date 04/22/25	Time 20:01:31 (B)	Page 04
Account No PASEM003	Phone No 7808194864	Inv No W47379
Ship Via		Purchase Order
Tax ID No		
		Salesperson 108

SERVICE INVOICE

STK#/FLEET#		HRS	PIN/EIN	WARRANTY DATE	HRS	
0013401A	John Deere 4830 Se	4321	1N04830XCB0013401	04/01/12		
	4830	4129		04/01/14	2000 X	
N314067		Shim		1	48.91	48.91
					PARTS	48.91
					LABOR	306.68
10901001				SEGMENT TOTAL==>		355.59
SEGMENT# 4 C A4	N/A	03/03/25	03/03/25			
	low coolant level					
TY26575		4LPREMIXCOOL2		1	33.85	33.85
	4L Cool-Gard II Coolant					
					PARTS	33.85
					LABOR	74.80
10901001				SEGMENT TOTAL==>		108.65

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

PARTS	424.90
LABOR	2281.43
OUTSIDE SERVICE	379.50
SUB TOTAL==>	3085.83
#836926121 GST 5%	154.31
CREDIT CARD	3240.14

JS

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Branch		
FT SASKATCHEWAN *REPRINT*		
Date	Time	Page
05/12/25	20:01:47 (B)	01
Account No	Phone No	Inv No
PASEM003	7808194864	W47924
Ship Via		Purchase Order
Tax ID No		
		Salesperson
		182

SERVICE INVOICE

STK#/FLEET#		HRS	PIN/EIN	WARRANTY DATE	HRS
0013401A	John Deere 4830 Se	4329	1N04830XCB0013401	04/01/12	
	4830	4211		04/01/14	2000 X

SEGMENT# 1 C A4 N/A 04/30/25 04/30/25

Lines blew

CAUSE:

Hydrostatic hose from left side of rear hydrostatic pump rubbed against hose between auxiliary pump outlet and priority valve wearing both lines creating a hole on the side of the hydrostatic hose.

CORRECTION:

04/30: pack up tools and drive to sprayer, locate sprayer on side of the road, sprayer was about 1/4 mile from yard, decide it is a short enough distance to release park brakes rather than remove sun gears from all 4 planetaries which would be more time consuming, could not see where oil was leaking under cab as all hoses in the area were coated with oil

-release park brakes: locate 4 park brake hoses and disconnect, connect to port-a-power and adapter fittings including a DR, connect digital pressure gauge, add oil to port-a-power and pump up until pressure just over 400 PSI
-tow sprayer a short distance, too much noise coming from wheel motors most likely pressurizing oil in system, help add 1 pail of oil to hydraulic reservoir, start engine, place hydro handle in neutral and tow sprayer, sprayer moved easily for a short distance before there was more resistance in the wheel motors, stop and inspect wheel motors to verify no oil is leaking, locate oil leaking from hydrostatic hose, did not have anything to cap it off to stop the leak, tow sprayer to the yard at a slow speed with the engine off and park to the side in a safe area

CONTINUED ON PAGE 02

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Branch		
FT SASKATCHEWAN		
Date	Time	Page
05/12/25	20:01:47 (B)	02
Account No	Phone No	Inv No
PASEM003	7808194864	W47924
Ship Via		Purchase Order
Tax ID No		
		Salesperson
		182

SERVICE INVOICE

STK#/FLEET#		HRS	PIN/EIN	WARRANTY DATE	HRS
0013401A	John Deere 4830 Se	4329	1N04830XCB0013401	04/01/12	
	4830	4211		04/01/14	2000 X

-disconnect and remove port-a-power and return park brake hoses back to normal

-remove hydrostatic hose: clean area around fittings, disconnect flange fitting from left side of rear hydrostatic pump and disconnect other fitting, pull out hose and find large hole on the side, cap off flange fitting on hydrostatic pump and other fitting, find outlet hose between auxiliary hydraulic pump and priority valve had lots of material missing from crimp which is what rubbed and caused the leak

-clean up and drive to shop

05/05: once hoses arrived drive to sprayer

-set up form-a-funnel to prevent splashing and drain remainder of oil from hydraulic reservoir, install drain hose to the bottom to make it easier to drain oil in the future-

-disconnect a hose on the auxiliary pump outlet fitting in order to remove hose to priority valve, inspect hose and find there wasn't much material left on crimp and hose could have started to leak soon, install new hose with new O-rings, connect hose to auxiliary pump outlet fitting

-remove caps and clean area around rear hydrostatic pump fitting and install new hydrostatic hose with new O-rings, verify hose is correctly routed and not contacting any other hoses before tightening fittings

-add correct 10W-30 oil to hydraulic reservoir

-connect laptop and perform compression test to crank engine over 4 times without starting to prime system, start engine and inspect for leaks

-drive sprayer around yard to retract tread adjust and park

CONTINUED ON PAGE 03

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Date	Time	Page
05/12/25	20:01:47 (B)	03
Account No	Phone No	Inv No
PASEM003	7808194864	W47924
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Tax ID No		
		Salesperson
		182

SERVICE INVOICE

STK#/FLEET#		HRS	PIN/EIN	WARRANTY DATE	HRS
0013401A	John Deere 4830 Se	4329	1N04830XCB0013401	04/01/12	
	4830	4211		04/01/14	2000 X

on a more level surface, top up hydraulic oil level, no leaks

ADDITIONAL DESCRIPTION:

Sprayer blew a hydraulic line on the road, please release the park brake so that the unit can be towed back to the yard

780-446-6388 Randy

RR 221 and TWP 572

EF200	ENVIRO FEE	4	2.00	8.00
FRT	FREIGHT	2	10.22	20.43
KH-AN403243	Hose	1 N	178.83	178.83
KH-AN403281	Hose	1 N	359.08	359.08
TY26671	20L 10W-30+50	4	185.57	742.28
	20L 10W30 Plus-50 II Oil			
T76938	O-RING	1	4.84	4.84
T77858	O-RING	2	3.54	7.08
X10FNTX-S	FITTING	1	7.29	7.29
X10343-10-8	FITTING	1	16.33	16.33
X10543-10-8	HOSE FITTI	1	19.55	19.55
X302-8-RL	BULK HOSE	1	10.44	10.44
	PARTS			1374.15
	LABOR			2070.00
10400000	SEGMENT TOTAL==>			3444.15

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

PARTS 1374.15

LABOR 2070.00

SERV ACCESORIES 207.00

CONTINUED ON PAGE 04

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Date	Time	Page
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Account No	Phone No	Inv No
PASEM003	7808194864	W47924
Ship Via	Purchase Order	
Tax ID No		
		Salesperson
		182

SERVICE INVOICE

STK#/FLEET#		HRS	PIN/EIN	WARRANTY DATE	HRS	
0013401A	John Deere 4830 Se	4329	1N04830XCB0013401	04/01/12		
	4830	4211		04/01/14	2000 X	
				SUB TOTAL==>		3651.15
			#836926121	GST 5%		182.14
JS				CHARGE SALE		3833.29

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Invoice To: DEERE WARRANTY CLAIMS
8599 112street
FORT SASKATCHEWAN AB T8L 3V3

Branch		
FT SASKATCHEWAN *REPRINT*		
Date	Time	Page
06/12/25	20:01:41 (B)	01
Account No	Phone No	Inv No
WAR01		W48241
Ship Via	Purchase Order	
Tax ID No		
		Salesperson
		311

SERVICE INVOICE

STK#/FLEET#		HRS	PIN/EIN	WARRANTY DATE	HRS
0013401A	John Deere 4830 Se	X	1N04830XCB0013401	04/01/12	
	4830	4211		04/01/14	2000 X
SEGMENT# 1 C WARRA NA					
s/a activation					
credit stk # SUBSC144					
MISCADJUST					
		s/a w48399	1	2500.00	2500.00
				PARTS	2500.00
10500001				SEGMENT TOTAL==>	2500.00

***** WORK ORDER TOTALS *****		
	INTERNAL	CUSTOMER
PARTS	2500.00	
INTERNAL TOTAL	2500.00	

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AB

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Date	Time	Page
06/30/25	17:34:17 (B)	01
Account No	Phone No	Inv No
INT01		W47850
Ship Via		Purchase Order
Tax ID No		
		Salesperson
		177

SERVICE INVOICE

STK#/FLEET#		HRS	PIN/EIN	WARRANTY DATE	HRS
0013401A	John Deere 4830 Se	4323	1N04830XCB0013401	04/01/12	
	4830	4211		04/01/14	2000 X

SEGMENT# 1 C A4 N/A 04/25/25 04/25/25

ECU code came back

CORRECTION:

04/23: submitted DTAC case of ECU 1347.07 coming back, DTAC replied recommending to perform a injector return flow test, look up test, did not have some of the test equipment, order missing equipment

04/25: drive out to sprayer

-inspect & clean out fuel tank vent: remove bracket between cab and solution tank, remove cover from cab around hydraulic reservoir, locate vent breather and hose, unbolt clamp and remove breather, loosen clamp and pull hose from tank, find some fuel trapped inside of hose, blow out hose with compressed air, blow out breather and verify it is clear, install hose and breather back into place, install cover back in cab and bracket

-measure injector return flow: disconnect fuel return lines, locate injector return and connect clear hose to measuring container, cap off other lines, start engine, find large amount of fuel leaking from other lines, use hose to cap off other lines, start engine and run at low idle and turn off after 1 minute, measure 450mL of fuel, spec is no more than 400mL, repeat test 2 more times with same results, failed test indicates there is excess leakage from an injector or feed tube inside cylinder head

-measure pressure limiter flow: connect return lines and disconnect return line from fuel rail high pressure limiter valve, connect clear hose to container, start engine, no leaks, at low idle no fuel is leaking from valve, connect

CONTINUED ON PAGE 02

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	4830	4211		04/01/14	2000 X

laptop and view readings, drive sprayer up and down field for 10 minutes at high idle, return back to yard, only a few drops of fuel leaked past valve, engine ran good with no codes, remove hose and connect return lines, clean area -drive sprayer in field for several passes, no leaks, engine ran good, no codes

-clean up and drive back to shop

05/05: swap ECU: after hydraulic hoses were replaced park sprayer close to Five Star Poultry's sprayer, loosen mounting hardware and clean area to get ready for swap, connect laptop in donor sprayer, reprogram to save information and blank ECU, disconnect batteries and remove ECU, connect laptop to suspect sprayer, save information from ECU, disconnect battery and remove ECU, install donor ECU and connect batteries, load information to donor ECU, disconnect laptop

-test sprayer: fold out booms and drive down field while spraying, before reaching end of the field engine bogged down and started running rough with black smoke, turn off solution pump and fold up booms, drive slowly back to yard to get laptop

-diagnose ECU 1180.00 & 1180.16: connect laptop and find codes are caused by the ECU estimating the calculated turbo inlet temperature is too high, follow diagnostic procedure in manual for both codes, look over intake and exhaust systems for restrictions, inspect air filter and find it is clean, test 3 temperature sensors by locating and removing from right side of engine, notice intake manifold temperature sensor has been previously replaced, allow sensors to hang outside exposed to the air for 20 minutes

CONTINUED ON PAGE 03

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06/30/25	17:34:17 (B)	03
Account No	Phone No	Inv No
INT01		W47850
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STK#/FLEET#		HRS	PIN/EIN	WARRANTY DATE	HRS
0013401A	John Deere 4830 Se	4323	1N04830XCB0013401	04/01/12	
	4830	4211		04/01/14	2000 X

to stabilize, find charge air cooler temperature sensor is out of spec and needs to be replaced, install sensors, contact parts and find sensor is in stock
-pack up and drive to shop
05/06: pick up new sensor and drive to sprayer
-replace charge air cooler temperature sensor
-test sprayer: connect laptop, view sensor readings, make a recording and drive down field, don't even make a full pass before engine bogs down and same code appears, engine is derated, shut off engine and turn back on, no codes, drive sprayer back to yard without any problems
-continue diagnostic procedure by testing 2 pressure sensor values, both appeared to be good with engine off, with engine running at idle the manifold pressure sensor was out of spec, increase engine speed and find the difference between desired and actual manifold pressure kept increasing, sensor was faulty
-swap manifold air pressure sensor between both sprayers
-test sprayer: connect laptop and record readings, was able to drive a little farther until engine bogged down and same ECU code appeared, cycle key and drive back to yard
-submit DTAC case
-reprogram donor ECU: view readings and notice calculated turbo readings don't appear high but there is no spec listed, view DTAC solution on code and it recommended a software update, the donor ECU had been blanked and reloaded with updated software already, download software and reprogram donor ECU
-test sprayer: drive sprayer down field while monitoring readings, was able to drive several passes before engine

CONTINUED ON PAGE 04

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Branch FT SASKATCHEWAN		
Date 06/30/25	Time 17:34:17 (B)	Page 04
Account No INT01	Phone No	Inv No W47850
Ship Via		Purchase Order
Tax ID No		
		Salesperson 177

SERVICE INVOICE

STK#/FLEET#		HRS	PIN/EIN	WARRANTY DATE	HRS
0013401A	John Deere 4830 Se	4323	1N04830XCB0013401	04/01/12	
	4830	4211		04/01/14	2000 X

bogged down and stalled, there were no codes, start engine and drive back to yard without any problems, view readings and find fuel pressure dropped and did not recover even though sprayer had stopped with throttle position at high idle, determine the ECU is not the problem

-find DTAC responded to case, recommended to replace injectors and feed tubes

-follow reverse procedure to swap ECU's back to original sprayers, after ECU swap and programming verify engine hours are correct, clear codes and verify no codes appear, each engine starts good and sprayer can be moved

-recommend to bring sprayer to shop to replace injectors and feed tubes

-clean up and drive back to shop

HDWBLK	10.9	HARDWARE	2	1.16	2.32
RE522823		TEMPERATURE	1	131.55	131.55
		Temperature Sensor			

PARTS	133.87
LABOR	588.60

10100001	52803401	SEGMENT TOTAL==>	722.47
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***** WORK ORDER TOTALS *****

	INTERNAL	CUSTOMER
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PARTS	133.87
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LABOR	588.60
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INTERNAL TOTAL	722.47
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