



007-2

**P.O. Box 780 • 232028 Hwy 519 West
Nobleford, AB T0L 1S0
Phone (403) 824-3020 Fax (403) 824-3074
Email: sales@nobleequipment.ca
www.nobleequipment.ca**

Ship To: IN STORE PICKUP

Invoice To: [REDACTED]

SERVICE INVOICE

STK#/FLEET#		HRS	PIN/EIN	WARRANTY DATE	HRS
000462	550-80 AGRI PLUS 550-80 AG+	6073	JCB5AWRHC02145589		

SEGMENT# 1 C 00411 NA 08/29/24 09/02/24

DOES NOT MOVE IN FORWARD

CORRECTION:

- cut planetary hub off with zip disc
- removed ring gear drive gear
- jacked axle up and set on stands
- removed wheel with flange and bearings
- found front bearing failed
- found rear bearing fell out in chunks
- unbolted flange from rim
- removed tie rod and found it was loose
- found steer knuckle machine surface is very much chewed out
- removed steer knuckle
- found planetary input seal was melted out
- found axle stub shaft has deep grooves in it
- checked LH rear hub and found very little oil in the hub and traces of input seal leaking
- put goute together of RH rear damages
- looked into machine dont drive issue and fuses blowing
- checked for the fuse that was blown, found 2 fuses blown both for transmission
- installed new fuses and found the fuse blows as soon as key is turned on
- looked up schematic, had to remove fuse panel cover to check wire numbers to better locate
- found the one fuse is connected to LH column forward reverse and transmission speed sensor
- found the other fuse is connected to four wheel drive

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TERMS: NET 30 DAYS

A service charge at a rate of 1 1/2% per month (18% per annum) may be applied to overdue accounts.

GST# 80800 1796 RC 0001

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Received By

Date _____

****THANK YOU FOR YOUR BUSINESS- HAVE A NICE DAY!!****



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NOBLEFORD		
Date 10/25/24	Time 14:31:02 (O)	Page 02
Account No. STOUT001	Phone No. 4033317019	Invoice No. W13670
Ship Via	Purchase Order	
	Salesperson 400	

SERVICE INVOICE

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switch

- both fuses are supplied by the same wire
- checked speed sensor wires and found wires were worn through due to hanging over steel hydraulic line
- cut wires and repaired
- found can terminator wires were also worn through, repaired wires
- ziptied harnesses neatly and out of chafing areas
- installed correct amperage fuses and tested, fuse did not blow and only drawing 2- 3 amps
- reassembled fuse panel and other covers
- will have to verify repair more once unit is drivable
- was told to remove LH rear knuckle to assess shaft damage
- noticed rear axle mount trunnions were worn and lots of slop
- removed LH rear hub
- axle mount pins worn badly
- found both front and rear trunnions are oblonged
- was told to remove rear axle for further diag on trunnion wear
- removed all harnesses and hydraulic lines
- supported the frame
- unbolted rear axle and assessed
- cleaned up all tools and work space
- after general walk around of unit items that were noticed that need attention
- all 4 knuckle pins have play, shims need to be removed from top knuckles to tighten up
- remaining three planetary input seals are leaking and oil levels are all low, remove hubs and replace seals

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000462	550-80 AGRI PLUS	6073	JCB5AWRHC02145589		

550-80 AG+

- all axle stubs are most lightly grooved and need machining or replacing
- hydraulic leak coming from around pump area, clean and asses further
- transmission four wheel drive output seal leaking, replace output seal and top up level
- front axle input seal leaking, replace input seal
- front axle front seal cap leaking. replace seal cap and top up level
- rear drive shaft ujoint has lots of play, replace u joint
- quoted all work required

REPAIR THE FOLLOWING AS PER CUSTOMER APPROVAL

- replaced LH rear unput bushing and seal
- replaced LH rear axle ujoint and installed resurfaced stub
- installed planetary and steer knuckle
- removed 2 shims from upper knuckle pin to tighten up knuckle
- torqued knuckle bolts to spec
- greased knuckle
- clamped new tie rod and torqued to spec
- assembled RH planetary and flange assembly with all new bearings and seals
- torqued ring gear nuts to spec for proper bearing preload
- removed old axle shaft and removed bearing housing
- replaced seal and reassembled bearing on new shaft
- slid new axle shaft into housing and clamped in place
- pressed out wheel studs from old flange and pressed into new flange
- noticed 2 knuckle dust seals were cracked and broken, got 2 new ones order

CONTINUED ON PAGE 04

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Invoice To: Q [REDACTED]
P [REDACTED]
COALDALE LTD [REDACTED]

SERVICE INVOICE

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000462	550-80 AGRI PLUS	6073	JCB5AWRHC02145589		
	550-80 AG+				

- installed new dust seals and removed 2 knuckle pin shims to tighten up knuckle
- torqued knuckle bolts to spec and greased
- installed tie rod in knuckle and torqued nut to spec
- drained all old oil out of axle and filled up with new oil
- filled up both rear planetaries
- topped up both front planetaries and front axle
- total HP JCB 90 gear oil used, 30 liters
- greased and installed front and rear drive shafts
- torqued Ujoint clamps to spec
- mounted both rear wheels and torqued to spec
- hydraulic oil low, topped up with 15 liters of TDH
- found it would not go into forward but would go into reverse
- checked all fuses and relays, good
- checked transmission oil level, good
- revved up and all of a sudden unit when in forward
- pulled out of the shop and tested all gears, all gears working
- while test running, hydraulic line on counter balance valve blew out
- removed line and got new one made
- installed new line
- found oil temperature light was illuminated on the dash
- checked power and ground to sensor, good
- light would flicker on and off when driving
- checked all harnesses, all looked good
- topped up hydraulic oil after hydraulic line blew out, 15 liters TDH added
- after sitting for some time, unit would not go into drive

CONTINUED ON PAGE 05

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000462	550-80 AGRI PLUS	6073	JCB5AWRHC02145589		
	550-80 AG+				

again
-after revving up it would
-drove around the yard some more
-shut off over lunch and tested again 45 mins later
-now unit goes into drive right away
-determined to clean all oil residue and park over the weekend
-will test run after weekend
-test drove in the morning, unit shifted into drive and reverse no hesitation
-hydraulic oil temp light flickers indicating sensor failure or wiring failure
-will notify customer
-complete
-customer approved further diag on hyd. temp light on
-looked up documents
-located sensor, backprobed sensor and found sensor is reading 5 volts
-removed wire loom and found wires were damaged slightly showing bare wire
-repaired and reconnected, light still on and flickering
-found with sensor unplugged light still flickers on and off
-removed wire loom further back and could not find any damage
-located connector further down and found no damage
-removed loom back from connector and could not find any damage
-at this point customer did not want any further looking into

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	550-80 AG+				

- reinstalled all loom and ziptied harness's back in place
- parked in back row
- complete

ADDITIONAL DESCRIPTION:

Does not drive in 1 OR 3
 Shorted wire.

- Rebuild and seal right rear planetary
- replace complete knuckle, shaft, hub and planetary
- reseal LHS rear axle input seal (send yoke away for machining)

***EXTRA DIAG FOR HYDRALIC TEMP LIGHT APPROVED ***

Sublet charge for re-chrome axle stub \$450

EHC2	ENVIRO	57	.12	6.84
	OIL IN CONTAINER PER LITRE			
001.05.1119	o-ring	1 N	8.70	8.70
005.10.1427	Bearing kit	2 N	588.30	1176.60
006.22.4177	nut	8 N	6.00	48.00
10304171	double joint	1 N	1966.17	1966.17
112.01.610.01	plug	1 N	7.77	7.77
113.06.007.01	security sheet	1 N	105.46	105.46
113.06.708.03	Ring gear supp	1 N	1852.64	1852.64
123.06.016.03	Seal	1 N	73.07	73.07
176.06.065.03	stud	8 N	19.61	156.88
212.06.710.23	plt gear carrie	1 N	2396.56	2396.56
213.06.004.01	Wheel hub	1 N	1298.64	1298.64
213.06.015.01	oil seal	1 N	49.06	49.06
223.06.720.01	steering case	1 N	4031.21	4031.21
4000/2205	G. OIL HP PLUS	1	241.92	241.92

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	550-80 AG+				
4000/3905			Gear oil LS	1 O 311.25	311.25
729.06.009.01			Seal	1 N 33.26	33.26
				PARTS	13764.03
				LABOR	4977.28
10300001				SEGMENT TOTAL=>	18741.31

SEGMENT# 2 C 00411 NA 09/16/24 09/16/24

Rear axle pivot worn

CORRECTION:

- painted new tie rods and planetary cap
- removed old trunnion bushings and cleaned housings
- installed new bushings and greased on axle
- mounted axle in place and torqued to spec
- connected all hydraulic lines and electrical plugs and ziptied in place
- removed old tie rods, had to heat up rod to remove
- cleaned threads on steer cylinder and installed new tie rods
- measured old tie rods and set new ones to the same and locked in place
- segment complete

ADDITIONAL DESCRIPTION:

- replace tie rods as they have lots of play
- replace axle pivot bushings
- axle pivot is somewhat worn, run it with new bushings
- ..
- Customer declines
- Getting the center diff machined
- Center diff section 223.01.008.01 \$3300

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001.05.1389	O-RING			1 N 1.87	1.87
213.06.015.01	oil seal			1 N 49.06	49.06
213.24.621.24	tie rod			2 N 1039.35	2078.70
276.25.003.01	thrust bushing			2 N 688.97	1377.94
290.06.020.03	BUSHING			1 N 93.93	93.93
				PARTS	3601.50
				LABOR	1232.00
10300001				SEGMENT TOTAL==>	4833.50

SEGMENT# 3 C TECH NA 09/16/24
Labor to disassemble and quote further repairs
Customer declines all

--
The following would need to be disassembled to quote
accurately:

- remaining two planetary input seals (front axle) are leaking and oil
- levels are all low, disassemble to assess shaft condition
- kingpin play in front axles also loose, remove shim when apart anyway, and set properly
- hydraulic leak coming from pump area, dripping onto the floor-clean, run and diag
- transmission 4wd output shaft leaking
- front axle input seal leaking, disassemble and assess
- front axle front seal cap leaking
- rear driveshaft u-joint has play, replace u-joints

SEGMENT# 4 C TECH NA 09/16/24 09/16/24
Potential Extra 10%-parts only

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BN300-04	1/4" EXTENDED S	3		4.90	14.70
E04-04FBSP	1/4" FEMALE BSP	1		5.94	5.94
E04-04FBSP90	1/4" BSP 90 DEG	1		14.52	14.52
FRT	FREIGHT CHARGE	1		65.00	65.00
213.06.006.03	Dust excluder	2 N		21.40	42.80
276.06.450.02	u-joint	1 N		450.00	450.00
				PARTS	592.96
10300001				SEGMENT TOTAL==>	592.96

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

PARTS	17958.49
LABOR	6209.28
SHOP SUPPLIES	300.00
SUBLET	450.00
SUB TOTAL==>	24917.77
GST TAX	1245.88
ACCOUNT RECEIVABLE	26163.65

CE10252024

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Brennan LeBlanc
Divisional Operations Manager
Western Canada Agriculture