

Location 14 Work Order 2488383 Seg. 02 Opn Dt 25MAR2024
Auth by Phone 604-826-2228 Inv 2488383 Cls Dt 27MAY2024
WARRANTY Slprn
S TRANSWOOD TIMBER LTD. Cust No. 14609536 S
O 7765 HORNE STREET Pur-Ord. H
L P-% 0.0 L-% 0.0 I
D MISSION, BC V2V 3Z2 P
G/L # 105-00-0014 Stock# 02488383 Multi-use#
Make Model PIN Number Equipment Meter MC SFR
JD 872GP 1DW872GPEHD680808 9489.0 H S
Prt Cls-PC Lbr Cls-IWR Price Cd-0 Prt Tx-N001 Lbr Tx-N001

Item	Hrs/Ord	Bk-Ord	Ship	Description/Comments	RATE	EXTENSION
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SPG CD .
CHECK AND REPAIR FOR VIBRATING HYDRAULICS

COMPLAINT:

VIBRATING HYDRAULIC FUNCTIONS

CAUSE:

Pump failed, weak material in hydraulic pump

CORRECTION:

Fill out job hazard assessment form
Checked hydraulic pump pressures, found system and load sense pressures very erratic and the needle on the gauge was vibrating heavily
Separated the pump output line from the system and tested to verify the pump was the issue, pump line is vibrating heavily, pump is failing
Removed the hydraulic filter to inspect, cut the filter apart and found contamination in the filter
Removed all paneling around the rear of the machine for access to the hydraulic pump
Drained hydraulic reservoir oil into containers
Removed all hydraulic pump lines and removed the hydraulic pump from the machine
Disassembled the pump once on the bench and found the pump rotate group failing, the pistons were scoring the barrel and material from the pistons and barrel was damaged and material pumped into system.
Removed fan circuit screen to inspect

Location 14 Work Order 2488383 Seg. 03 Opn Dt 25MAR2024
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Item Hrs/Ord Bk-Ord Ship Description/Comments RATE EXTENSION

REPAIR FOR INTERMITTENT JOYSTICK STEERING

Checked for intermittent joystick steering issue. The steering would not function one way intermittently. Removed steering check valves to inspect, they looked ok. Swapped them side to side and problem stayed on the same side. Removed the joystick steering solenoids and swapped them from side to side and the problem followed the solenoid, one solenoid has failed and is causing the steering issue. The good solenoid was missing the inlet screen so both required replacing. Ordered in new solenoids. Replaced the solenoids and tested operation, steering works normally now.

B
B
B
B
B
B
B
B
B

2	2	AT494063	SOLENOID	680.27	1360.54
3.00	05-09 R/T	14165 REPAIR		235.00	705.00
1.25	05-10 R/T	14165 REPAIR		235.00	293.75
.75	05-10 R/T	14165 REPAIR		235.00	176.25
1	05-24	1	FREIGHT-TAXABLE	55.10	55.10
1	05-27	1	SERVICE ACCESSORIES	105.75	105.75
1	05-27	1	CARBON TAX SURCHARGE	23.50	23.50
SEG # 03	TOTAL =	1,360.54 P	5.00 LH	1,175.00 L	184.35 M 2,719.89 T

* Taxable Parts 1,360.54 *
*
* Total Labor 1,175.00 *
*
* Misc Charges 184.35 *
* GST/HST 135.99 *
* Sales Tax 188.75 *
*
* TOTAL DUE > 3,044.63 *



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** WORK ORDER PREVIEW **

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for material, found material in screen,
cleaned screen, reinstalled
Removed pump case drain screen and
checked for material, found some
contamination in screen, cleaned
screen, reinstalled
Removed 6wd filter to inspect to see if
contamination has made its way into the
6wd drive circuit, found some minor
contamination
Installed new filter
Removed a blade cylinder from machine
to inspect for system contamination
level
Installed cylinder on cylinder bench
and removed rod guide snap ring, pushed
guide into barrel and installed filler
ring, removed rod guide and rod
assembly, inspected piston seals, found
some minor particles in seals, nothing
serious enough to justify further
system disassembly.
Resealed cylinder, assembled cylinder
and removed from the bench, installed
the cylinder back onto the machine
Removed the hydraulic reservoir to
clean it out, removed all components
around the reservoir so it could be
removed, removed and cleaned
reservoir, reinstalled reservoir back
onto machine and hooked up all lines
and installed all components removed.
Installed new hydraulic pump and
installed all lines to the pump
Filled reservoir with new oil and bled
the pump, started the machine, found a
low pressure code came active

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Suspect material is causing the hydraulic manifold reliefs to stick open and not allow pressure to build properly
Removed the hydraulic manifold and disassembled, cleaned all valving and reassembled, installed manifold and started the machine, found code no longer present and pressures normal.
Ran machine and found joystick steering intermittently not working on one side
Swapped steering solenoids and found the problem swapped to the other side, removed solenoids and found contamination on the screens, cleaned out the contamination and reinstalled the solenoids, joystick steering worked normally now
Removed all solenoid screens to inspect and clean since two had contamination in the screens, all had material in them, cleaned al screens and reinstalled all solenoids
Ran machine and no issues came up, no leaks
Installed all paneling removed to access the pump for repair.
Old hydraulic pump serial number - A235000791
ABEST

3	3	AT367840	OIL FILT	164.74	494.22
1	1	AT522445	HYDRAULICY	11086.90	11086.90
1	1	AT346594	FLUID KI	27.54	27.54
3	3	T77932	O-RING	1.81	5.43
2	2	51M7045	O-RING	2.71	5.42
1	1	U12037	O-RING	3.88	3.88

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Item	Hrs/Ord	Bk-Ord	Ship	Description/Comments	RATE	EXTENSION
1			1	U46457 O-RING	3.80	3.80
1			1	F37030250 O-RING	8.70	8.70
9			9	T77613 O-RING	1.60	14.40
1			1	U42702 O-RING	3.58	3.58
7			7	T77858 O-RING	1.86	13.02
2			2	51M7047 O-RING	4.30	8.60
1			1	AT335492 HYDRAULI	121.21	121.21
7			7	TY27318 HYDRAULI	245.81	1720.67
125			125	WDF WASTE DI	.10	12.50
1			1	AHC16954 HYDRAULI	109.18	109.18
1			1	AHC22108 HYDRAULI	75.65	75.65
1			1	T77857 O-RING	1.63	1.63
2			2	TY27828 HYDRAULI	54.53	109.06
2			2	AT367840 OIL FILT	115.21	230.42
1			1	AT346594 FLUID KI	29.07	29.07
1			1	AT315231 TEST/MEA	3.28	3.28
1.00	03-27	R/T		14155 REPAIR	235.00	235.00
1.50	04-08	R/T		14155 REPAIR	235.00	352.50
1.50	04-09	R/T		14155 REPAIR	235.00	352.50
4.00	04-10	R/T		14155 REPAIR	235.00	940.00
1.50	04-11	R/T		14155 REPAIR	235.00	352.50
.50	04-15	R/T		14155 REPAIR	235.00	117.50
2.50	04-18	R/T		14155 REPAIR	235.00	587.50
2.50	04-18	O/T		14155 REPAIR	295.00	737.50
1.75	04-19	R/T		14147 REPAIR	235.00	411.25
4.50	04-20	R/T		14147 REPAIR	235.00	1057.50
.50	04-25	R/T		14134 REPAIR	235.00	117.50
2.25	04-25	R/T		14134 REPAIR	235.00	528.75
2.50	04-30	R/T		14165 REPAIR	235.00	587.50
4.25	05-01	R/T		14165 REPAIR	235.00	998.75
4.00	05-01	R/T		14165 REPAIR	235.00	940.00
4.25	05-02	R/T		14165 REPAIR	235.00	998.75
4.00	05-02	R/T		14165 REPAIR	235.00	940.00
4.25	05-03	R/T		14165 REPAIR	235.00	998.75
4.00	05-03	R/T		14165 REPAIR	235.00	940.00
4.00	05-06	R/T		14165 REPAIR	235.00	940.00
4.00	05-06	R/T		14165 REPAIR	235.00	940.00



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Item	Hrs/Ord	Bk-Ord	Ship	Description/Comments	RATE	EXTENSION
.50	05-07	R/T		14165 REPAIR	235.00	117.50
.50	05-07	R/T		14165 REPAIR	235.00	117.50
1.50	05-07	R/T		14165 REPAIR	235.00	352.50
3.00	05-09	R/T		14165 REPAIR	235.00	705.00
1.25	05-10	R/T		14165 REPAIR	235.00	293.75
.75	05-10	R/T		14165 REPAIR	235.00	176.25
3.00-	05-09	R/T		14165 REPAIR	235.00	705.00-
1.25-	05-10	R/T		14165 REPAIR	235.00	293.75-
.75-	05-10	R/T		14165 REPAIR	235.00	176.25-
1	05-27	1		CARBON TAX SURCHARGE	293.23	293.23
SEG # 02	TOTAL =	14,088.16	P	61.75 LH	14,661.25	L 293.23 M 29,042.64 T
Estimated	TOTAL =	.00	P	61.75 LH	.00	L .00 M .00 T

* Taxable Parts .00 *
* Non-Taxable Parts 14,088.16 *
* Total Labor 14,661.25 *
* Non-Taxable 14,661.25 *
* Misc Charges 293.23 *
* Sales Tax .00 *
* TOTAL DUE > 29,042.64 *
