



# OIL ANALYSIS REPORT

WEAR	<b>NORMAL</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>NORMAL</b>

Area

**Store 5 - Cross Lanes**

Machine Id

**JOHN DEERE 544L 1DW544LZVKF701242**

Component

**Rear Differential**

Fluid

**JOHN DEERE HY-GARD HYD/TRANS (5 GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>LEC0045035</b>	LEC0043231	LEC0039963
Sample Date		Client Info		<b>20 Feb 2024</b>	02 Oct 2023	17 May 2023
Machine Age	hrs	Client Info		<b>6833</b>	6279	5686
Oil Age	hrs	Client Info		<b>554</b>	2033	1440
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Not Changd</b>	Changed	Not Changd
Filter Changed		Client Info		<b>N/A</b>	N/A	Not Changd
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

## WEAR

All component wear rates are normal.

PQ		ASTM D8184		<b>44</b>	38	31
Iron	ppm	ASTM D5185m	>500	<b>65</b>	225	166
Chromium	ppm	ASTM D5185m	>10	<b>&lt;1</b>	1	0
Nickel	ppm	ASTM D5185m	>10	<b>0</b>	<1	0
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	0
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>25	<b>&lt;1</b>	10	3
Lead	ppm	ASTM D5185m	>25	<b>&lt;1</b>	2	0
Copper	ppm	ASTM D5185m	>100	<b>3</b>	9	7
Tin	ppm	ASTM D5185m	>10	<b>1</b>	<1	0
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

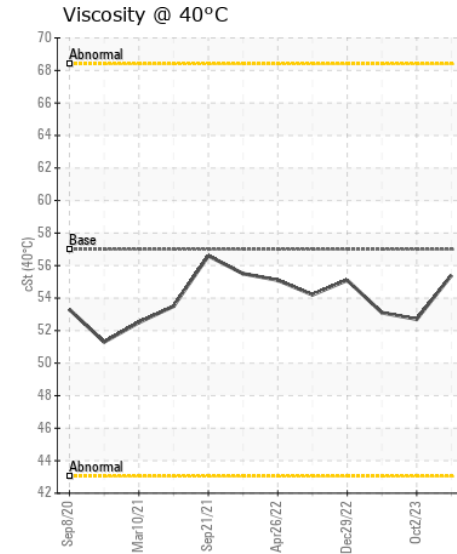
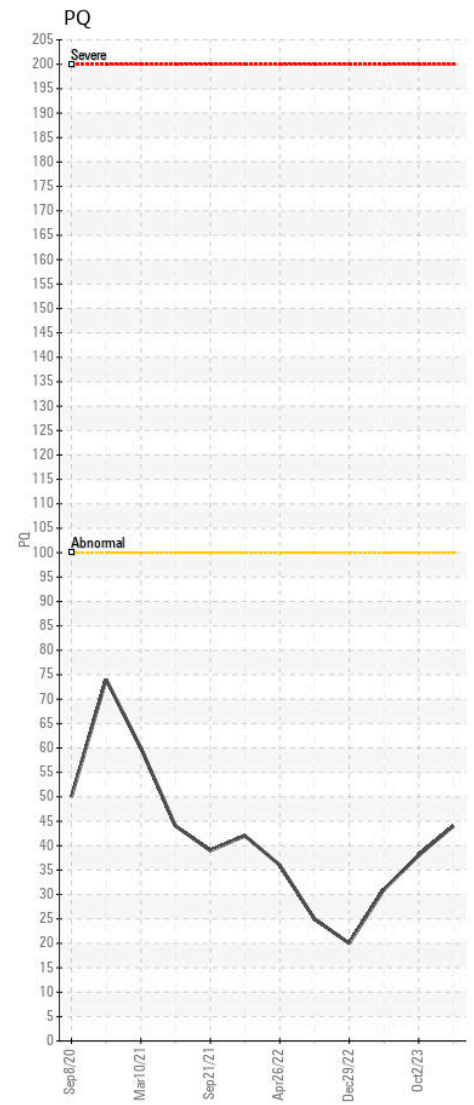
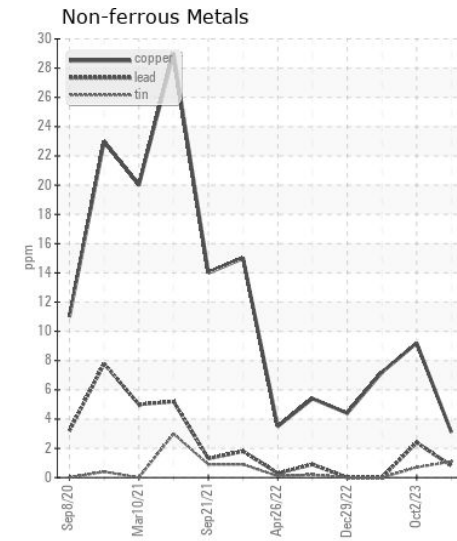
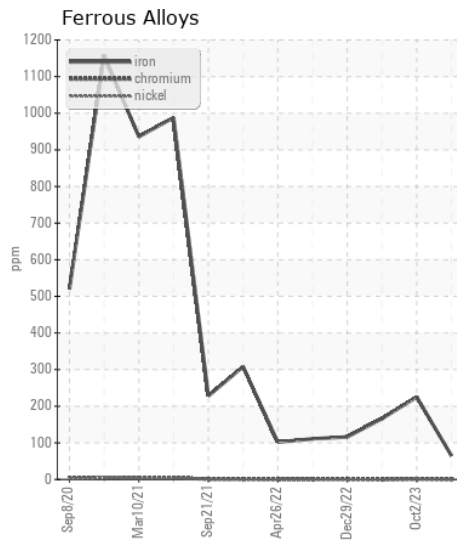
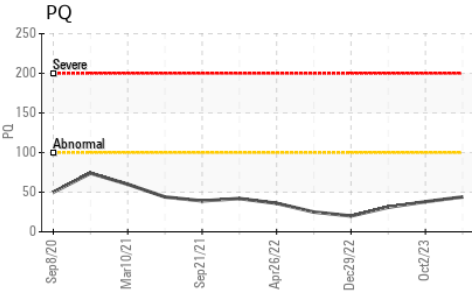
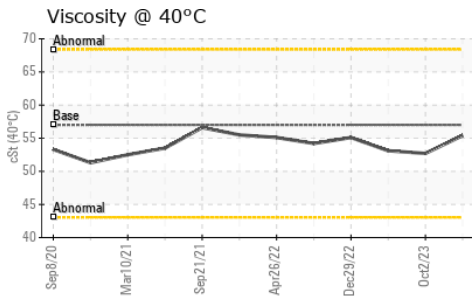
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>75	<b>8</b>	15	12
Potassium	ppm	ASTM D5185m	>20	<b>0</b>	0	0
Water		WC Method	>.2	<b>NEG</b>	NEG	NEG
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>.2	<b>NEG</b>	NEG	NEG

## FLUID CONDITION

The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		<b>0</b>	<1	<1
Boron	ppm	ASTM D5185m	6	<b>0</b>	0	0
Barium	ppm	ASTM D5185m	0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	0	<b>&lt;1</b>	<1	<1
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	3	2
Magnesium	ppm	ASTM D5185m	145	<b>92</b>	113	100
Calcium	ppm	ASTM D5185m	3570	<b>3367</b>	3723	3400
Phosphorus	ppm	ASTM D5185m	1290	<b>1033</b>	1166	986
Zinc	ppm	ASTM D5185m	1640	<b>1249</b>	1420	1202
Sulfur	ppm	ASTM D5185m		<b>3438</b>	4147	3810
Visc @ 40°C	cSt	ASTM D445	57.0	<b>55.4</b>	52.7	53.1



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : LEC0045035 **Received** : 22 Feb 2024  
**Lab Number** : 06097273 **Tested** : 23 Feb 2024  
**Unique Number** : 10890126 **Diagnosed** : 23 Feb 2024 - Wes Davis  
**Test Package** : CONST ( Additional Tests: PQ )

**HAYES SCOTT FENCE & LUMBER INC**  
 PO BOX 33  
 MILL CREEK, WV  
 US 26280  
 Contact: Service Manager

To discuss this sample report, contact Customer Service at 1-800-237-1369.  
 \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.  
 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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