



# OIL ANALYSIS REPORT

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

Machine Id  
**JOHN DEERE 844L 1DW844LXCNL714937**  
 Component  
**Front Differential**  
 Fluid  
**JOHN DEERE HY-GARD HYD/TRANS (--- QTS)**

## RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WE0006837</b>	WE0006377	WE0005133
Sample Date		Client Info		<b>11 Apr 2024</b>	02 Feb 2024	20 Oct 2023
Machine Age	hrs	Client Info		<b>3472</b>	3039	2456
Oil Age	hrs	Client Info		<b>0</b>	0	0
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Not Changd</b>	Not Changd	N/A
Filter Changed		Client Info		<b>Not Changd</b>	Not Changd	N/A
Sample Status				<b>ABNORMAL</b>	NORMAL	NORMAL

## WEAR

The copper level is abnormal. All other component wear rates are normal.

PQ		ASTM D8184		<b>175</b>	160	115
Iron	ppm	ASTM D5185m	>500	<b>503</b>	371	331
Chromium	ppm	ASTM D5185m	>10	<b>3</b>	2	2
Nickel	ppm	ASTM D5185m	>10	<b>4</b>	2	1
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	0
Silver	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Aluminum	ppm	ASTM D5185m	>25	<b>3</b>	2	1
Lead	ppm	ASTM D5185m	>25	<b>9</b>	7	6
Copper	ppm	ASTM D5185m	>100	<b>▲ 133</b>	97	77
Tin	ppm	ASTM D5185m	>10	<b>4</b>	2	2
Vanadium	ppm	ASTM D5185m		<b>1</b>	<1	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

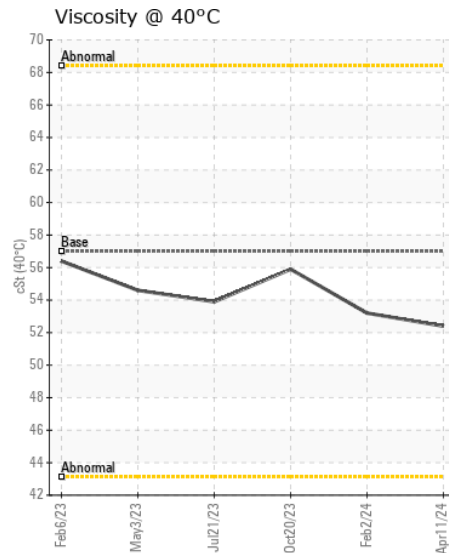
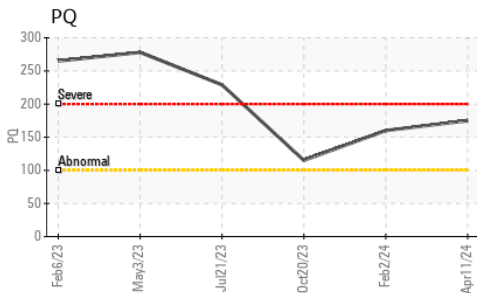
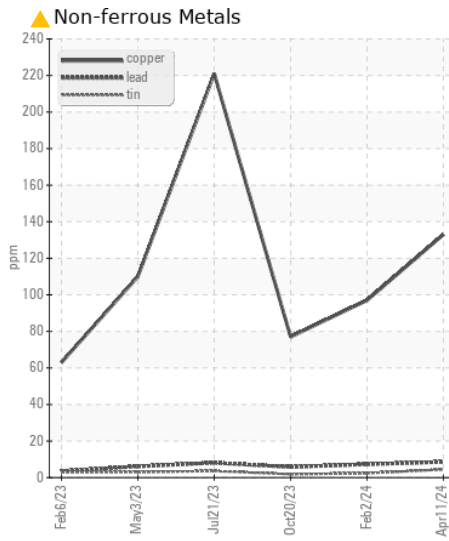
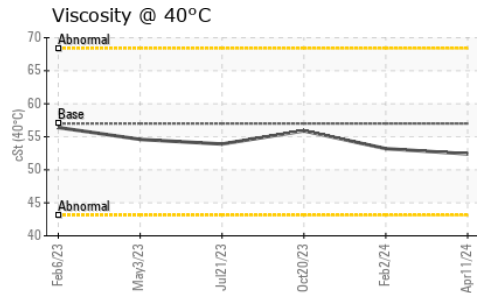
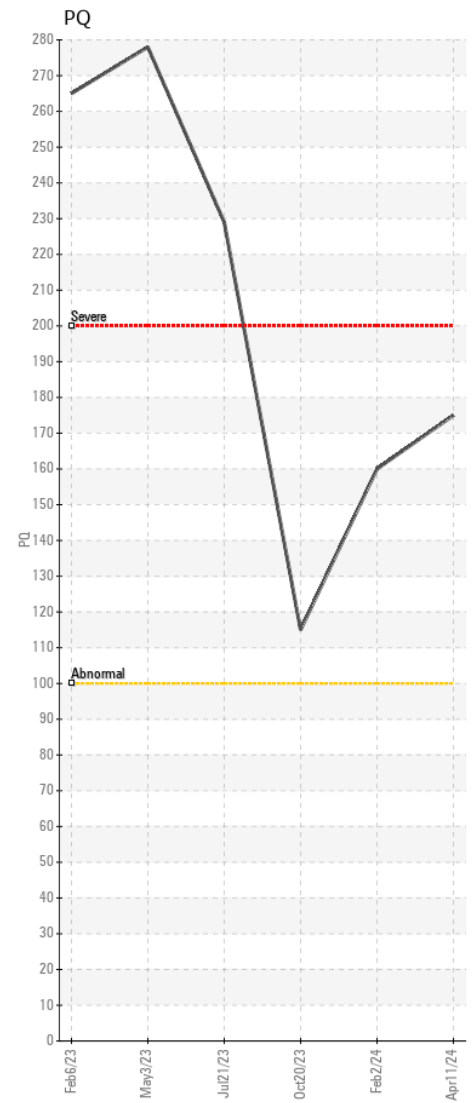
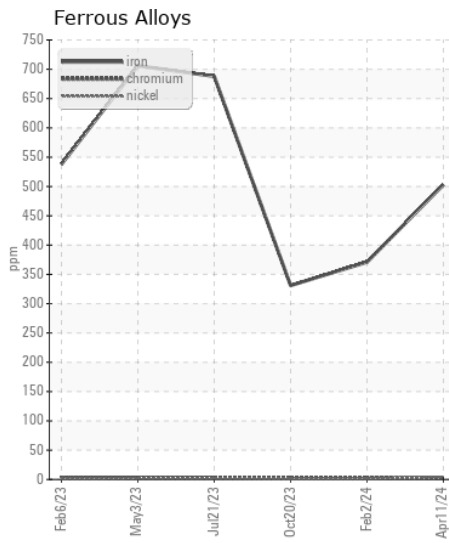
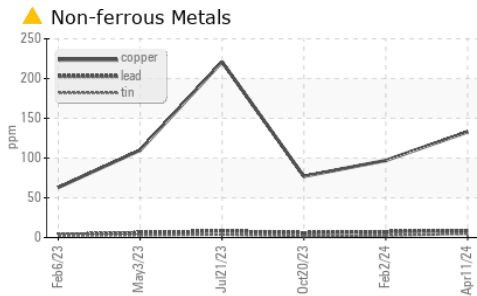
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>75	<b>12</b>	10	11
Potassium	ppm	ASTM D5185m	>20	<b>3</b>	2	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	0.2%

## FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		<b>2</b>	3	2
Boron	ppm	ASTM D5185m	6	<b>11</b>	8	8
Barium	ppm	ASTM D5185m	0	<b>3</b>	0	0
Molybdenum	ppm	ASTM D5185m	0	<b>4</b>	2	1
Manganese	ppm	ASTM D5185m		<b>14</b>	10	10
Magnesium	ppm	ASTM D5185m	145	<b>111</b>	103	102
Calcium	ppm	ASTM D5185m	3570	<b>4204</b>	3474	3643
Phosphorus	ppm	ASTM D5185m	1290	<b>1190</b>	1044	1064
Zinc	ppm	ASTM D5185m	1640	<b>1293</b>	1297	1307
Sulfur	ppm	ASTM D5185m		<b>4889</b>	3476	3588
Visc @ 40°C	cSt	ASTM D445	57.0	<b>52.4</b>	53.2	55.9



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WE0006837  
**Lab Number** : 06150682  
**Unique Number** : 10980760  
**Test Package** : CONST ( Additional Tests: PQ )

**Received** : 16 Apr 2024  
**Tested** : 17 Apr 2024  
**Diagnosed** : 18 Apr 2024 - Sean Felton

**WARRIOR TRACTOR AND EQUIPMENT - NORTHPORT**  
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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)