



# OIL ANALYSIS REPORT

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

Machine Id  
**JOHN DEERE 824L 1DW824LXVML712912**  
 Component  
**Brake**  
 Fluid  
**JOHN DEERE HY-GARD HYD/TRANS (--- QTS)**

## RECOMMENDATION

We advise that you check all areas where dirt can enter the system. We recommend that you drain the fluid from the component if this has not already been done. We recommend an early resample to monitor this condition.

## WEAR

All component wear rates are normal.

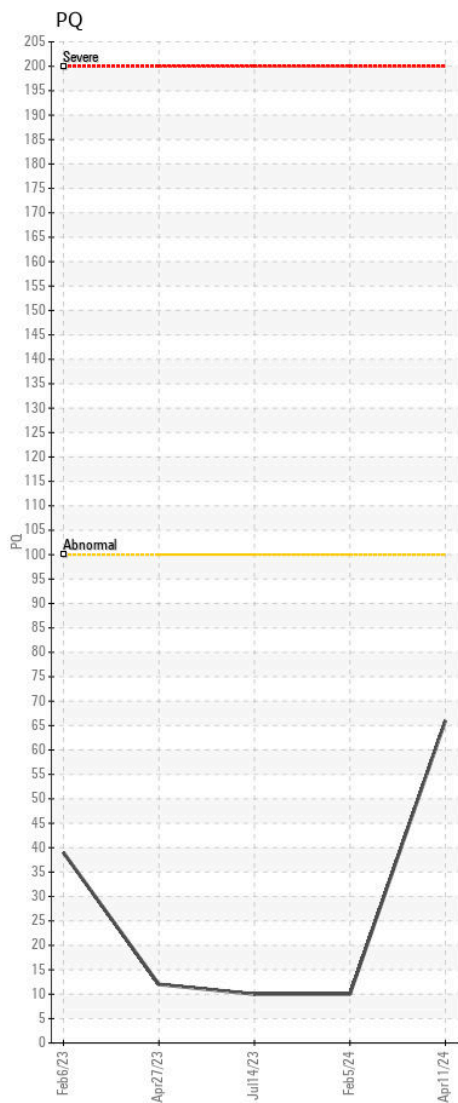
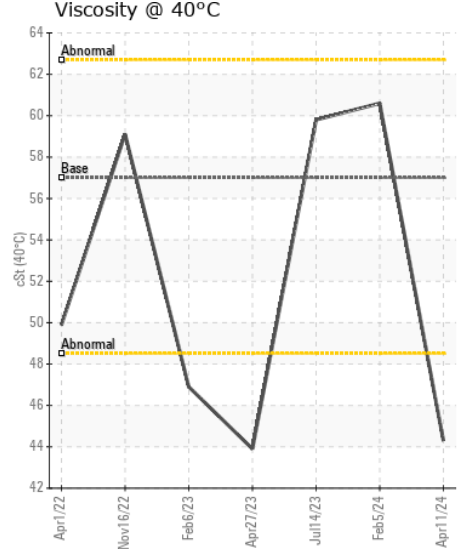
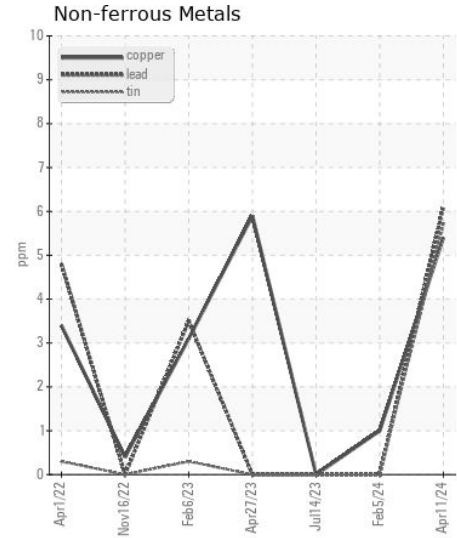
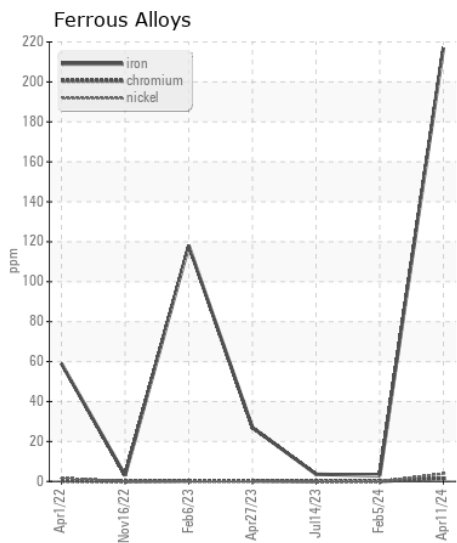
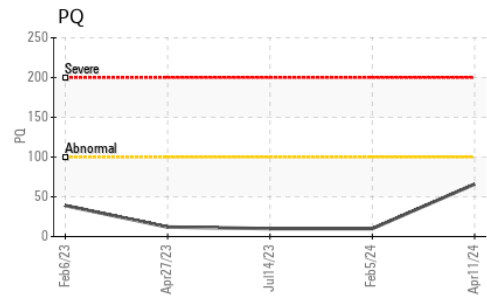
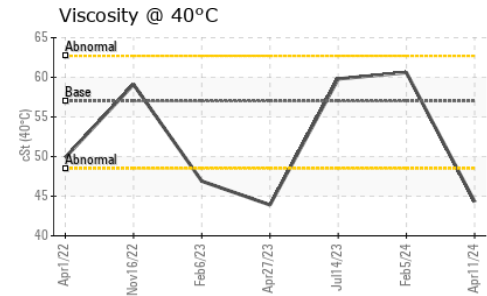
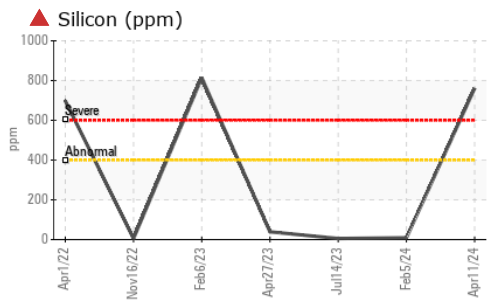
## CONTAMINATION

Elemental level of silicon (Si) above normal indicating ingress of seal material.

## FLUID CONDITION

The fluid is no longer serviceable due to the presence of contaminants.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WE0006833</b>	WE0006448	WE0004538
Sample Date		Client Info		<b>11 Apr 2024</b>	05 Feb 2024	14 Jul 2023
Machine Age	hrs	Client Info		<b>4524</b>	4097	2991
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>	Changed	N/A
Filter Changed		Client Info		<b>Not Changd</b>	Changed	N/A
Sample Status				<b>SEVERE</b>	NORMAL	NORMAL
PQ		ASTM D8184		<b>66</b>	10	10
Iron	ppm	ASTM D5185m	>350	<b>217</b>	3	4
Chromium	ppm	ASTM D5185m	>5	<b>2</b>	<1	0
Nickel	ppm	ASTM D5185m	>5	<b>4</b>	0	0
Titanium	ppm	ASTM D5185m		<b>2</b>	0	<1
Silver	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Aluminum	ppm	ASTM D5185m	>8	<b>4</b>	2	<1
Lead	ppm	ASTM D5185m	>10	<b>6</b>	0	0
Copper	ppm	ASTM D5185m	>150	<b>5</b>	1	0
Tin	ppm	ASTM D5185m	>5	<b>6</b>	0	0
Vanadium	ppm	ASTM D5185m		<b>1</b>	0	<1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Silicon	ppm	ASTM D5185m	>400	<b>▲ 761</b>	9	5
Potassium	ppm	ASTM D5185m	>20	<b>4</b>	3	0
Water		WC Method	>0.2	<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	>0.2	<b>NEG</b>	NEG	NEG
Sodium	ppm	ASTM D5185m		<b>15</b>	4	2
Boron	ppm	ASTM D5185m	6	<b>77</b>	<1	12
Barium	ppm	ASTM D5185m	0	<b>5</b>	0	0
Molybdenum	ppm	ASTM D5185m	0	<b>260</b>	0	<1
Manganese	ppm	ASTM D5185m		<b>6</b>	0	<1
Magnesium	ppm	ASTM D5185m	145	<b>417</b>	160	115
Calcium	ppm	ASTM D5185m	3570	<b>2051</b>	4592	3648
Phosphorus	ppm	ASTM D5185m	1290	<b>819</b>	1563	1046
Zinc	ppm	ASTM D5185m	1640	<b>844</b>	1802	1244
Sulfur	ppm	ASTM D5185m		<b>3012</b>	5718	4611
Visc @ 40°C	cSt	ASTM D445	57.0	<b>44.3</b>	60.6	59.8



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WE0006833  
**Lab Number** : 06150680  
**Unique Number** : 10980758  
**Test Package** : CONST ( Additional Tests: PQ )

**WARRIOR TRACTOR AND EQUIPMENT - NORTHPORT**  
 P.O. BOX 412  
 NORTHPORT, AL  
 US 35476  
 Contact: PAMELA CLARK  
 pamelac@warriortractor.com

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)

T: (205)339-0300

F: