



# OIL ANALYSIS REPORT

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

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

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WE0006832</b>	WE0006449	WE0004540
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	Changed
Sample Status				<b>NORMAL</b>	ABNORMAL	NORMAL

## WEAR

All component wear rates are normal.

PQ	UOM	Method	Limit/Abn	Current	History1	History2
PQ		ASTM D8184		<b>16</b>	13	16
Iron	ppm	ASTM D5185m	>500	<b>27</b>	67	33
Chromium	ppm	ASTM D5185m	>10	<b>2</b>	<1	0
Nickel	ppm	ASTM D5185m	>10	<b>2</b>	0	0
Titanium	ppm	ASTM D5185m		<b>1</b>	0	<1
Silver	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Aluminum	ppm	ASTM D5185m	>25	<b>2</b>	2	0
Lead	ppm	ASTM D5185m	>25	<b>4</b>	17	6
Copper	ppm	ASTM D5185m	>100	<b>87</b>	▲ 167	58
Tin	ppm	ASTM D5185m	>10	<b>6</b>	<1	<1
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

## CONTAMINATION

There is no indication of any contamination in the oil.

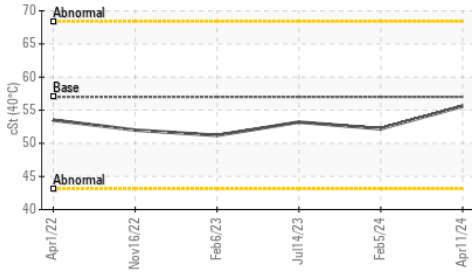
Silicon	ppm	ASTM D5185m	>75	<b>41</b>	6	4
Potassium	ppm	ASTM D5185m	>20	<b>4</b>	2	0
Water		WC Method	>.2	<b>NEG</b>	NEG	NEG
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>.2	<b>NEG</b>	NEG	NEG

## FLUID CONDITION

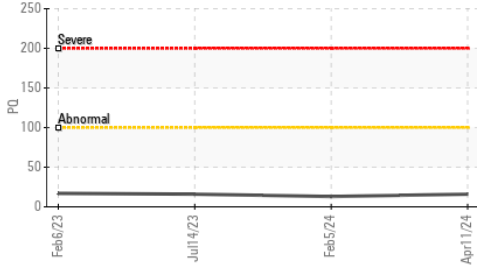
The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		<b>0</b>	3	3
Boron	ppm	ASTM D5185m	6	<b>1</b>	2	0
Barium	ppm	ASTM D5185m	0	<b>3</b>	0	0
Molybdenum	ppm	ASTM D5185m	0	<b>10</b>	1	1
Manganese	ppm	ASTM D5185m		<b>2</b>	<1	<1
Magnesium	ppm	ASTM D5185m	145	<b>85</b>	148	93
Calcium	ppm	ASTM D5185m	3570	<b>3850</b>	4354	3430
Phosphorus	ppm	ASTM D5185m	1290	<b>1046</b>	1550	1010
Zinc	ppm	ASTM D5185m	1640	<b>1132</b>	1798	1187
Sulfur	ppm	ASTM D5185m		<b>4135</b>	5503	4108
Visc @ 40°C	cSt	ASTM D445	57.0	<b>55.6</b>	52.2	53.2

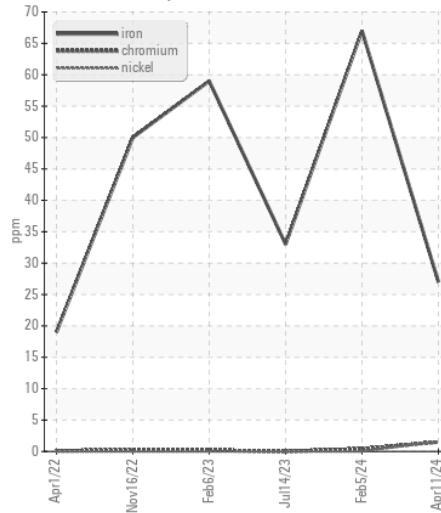
Viscosity @ 40°C



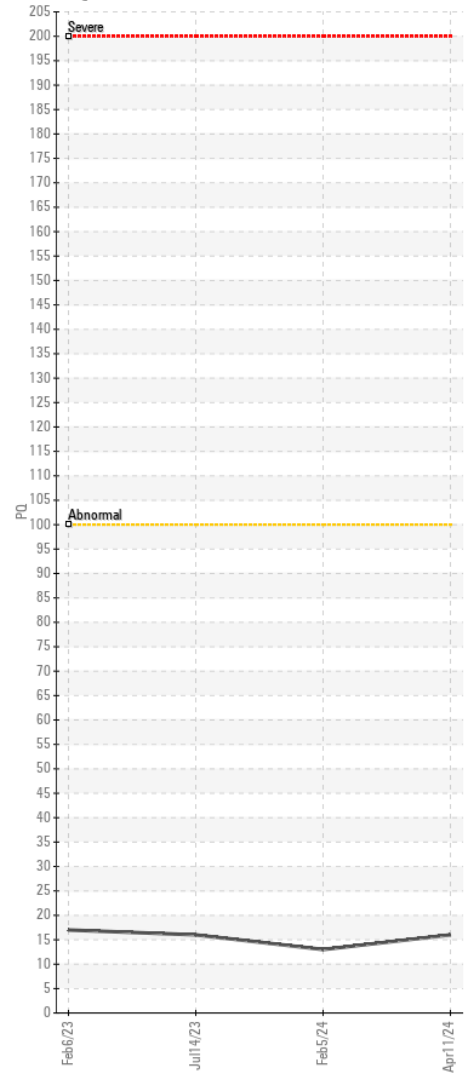
PQ



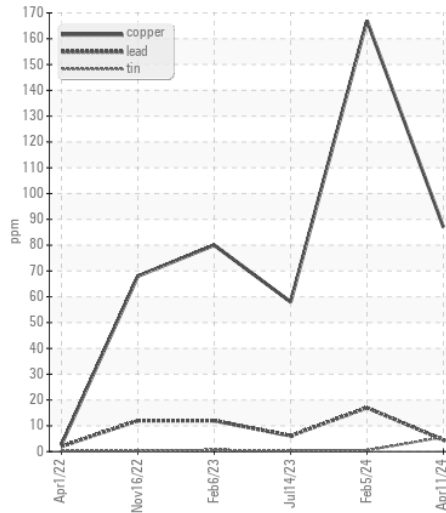
Ferrous Alloys



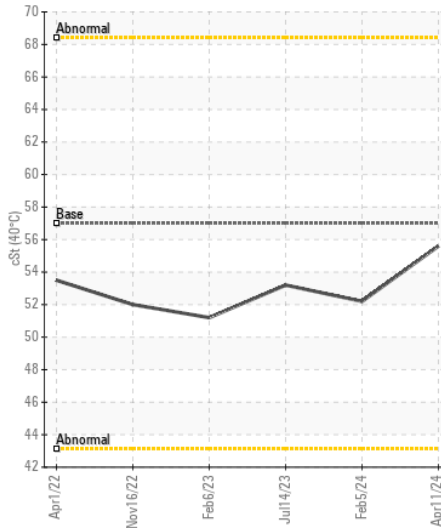
PQ



Non-ferrous Metals



Viscosity @ 40°C



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WE0006832 **Received** : 16 Apr 2024  
**Lab Number** : 06150681 **Tested** : 17 Apr 2024  
**Unique Number** : 10980759 **Diagnosed** : 18 Apr 2024 - Sean Felton  
**Test Package** : CONST ( Additional Tests: PQ )

**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)