



# OIL ANALYSIS REPORT

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

Machine Id  
**JOHN DEERE 748L 1DW748LBVLF707417**  
 Component  
**Rear Differential**  
 Fluid  
**JOHN DEERE HY-GARD HYD/TRANS (--- GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WE0007541</b>	WE0000699	---
Sample Date		Client Info		<b>14 Jun 2024</b>	15 Nov 2021	---
Machine Age	hrs	Client Info		<b>7919</b>	2509	---
Oil Age	hrs	Client Info		<b>0</b>	0	---
Filter Age	hrs	Client Info		<b>0</b>	0	---
Oil Changed		Client Info		<b>Changed</b>	Changed	---
Filter Changed		Client Info		<b>Changed</b>	Changed	---
Sample Status				<b>NORMAL</b>	NORMAL	---

## WEAR

All component wear rates are normal.

PQ		ASTM D8184		<b>39</b>	---	---
Iron	ppm	ASTM D5185m	>500	<b>20</b>	204	---
Chromium	ppm	ASTM D5185m	>10	<b>&lt;1</b>	1	---
Nickel	ppm	ASTM D5185m	>10	<b>0</b>	1	---
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	1	---
Silver	ppm	ASTM D5185m		<b>0</b>	0	---
Aluminum	ppm	ASTM D5185m	>25	<b>3</b>	2	---
Lead	ppm	ASTM D5185m	>25	<b>&lt;1</b>	5	---
Copper	ppm	ASTM D5185m	>100	<b>1</b>	43	---
Tin	ppm	ASTM D5185m	>10	<b>&lt;1</b>	0	---
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	---
White Metal	scalar	*Visual	NONE	<b>NONE</b>	LIGHT	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---

## CONTAMINATION

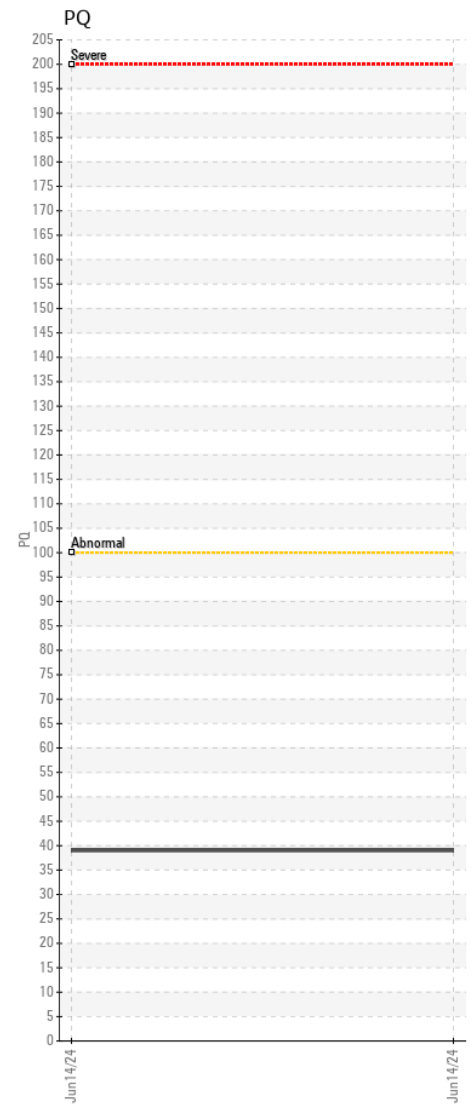
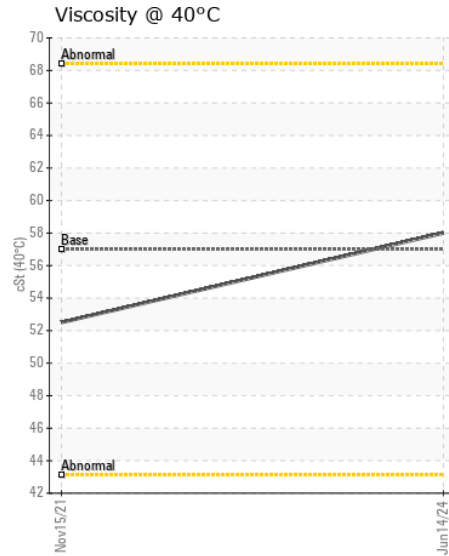
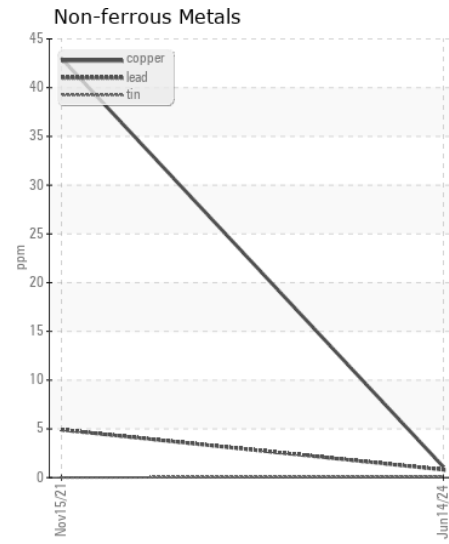
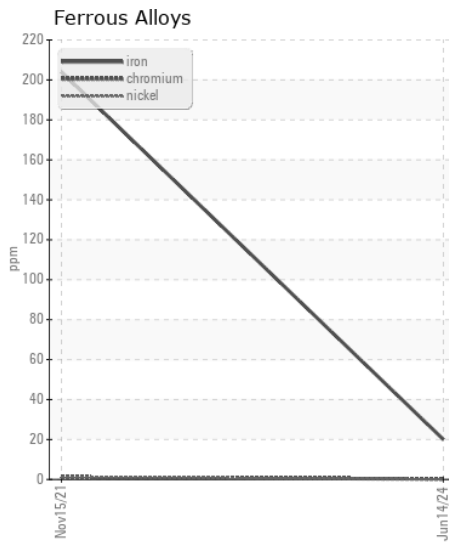
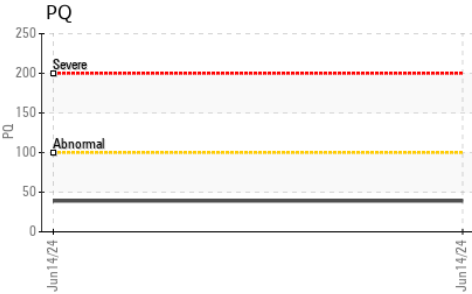
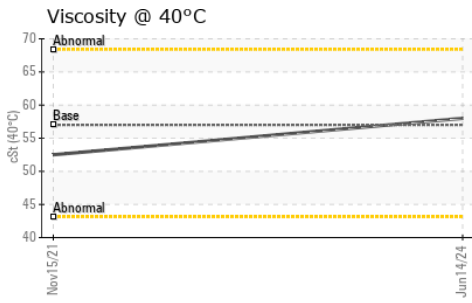
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>75	<b>34</b>	13	---
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	8	---
Water		WC Method	>.2	<b>NEG</b>	NEG	---
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	---
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	---
Emulsified Water	scalar	*Visual	>.2	<b>NEG</b>	NEG	---

## FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		<b>3</b>	6	---
Boron	ppm	ASTM D5185m	6	<b>0</b>	2	---
Barium	ppm	ASTM D5185m	0	<b>0</b>	4	---
Molybdenum	ppm	ASTM D5185m	0	<b>1</b>	0	---
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	10	---
Magnesium	ppm	ASTM D5185m	145	<b>107</b>	102	---
Calcium	ppm	ASTM D5185m	3570	<b>3961</b>	3624	---
Phosphorus	ppm	ASTM D5185m	1290	<b>1140</b>	1058	---
Zinc	ppm	ASTM D5185m	1640	<b>1357</b>	1285	---
Sulfur	ppm	ASTM D5185m		<b>4683</b>	3351	---
Visc @ 40°C	cSt	ASTM D445	57.0	<b>58.0</b>	52.5	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WE0007541 **Received** : 21 Jun 2024  
**Lab Number** : 06217068 **Tested** : 24 Jun 2024  
**Unique Number** : 11089932 **Diagnosed** : 24 Jun 2024 - Wes Davis  
**Test Package** : CONST ( Additional Tests: PQ )

**WARRIOR TRACTOR AND EQUIPMENT - MONROEVILLE**  
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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)