



# OIL ANALYSIS REPORT

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

Machine Id  
**JOHN DEERE 648L 1DW648LBCPL718497**

Component  
**Transmission (Manual)**

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>WE0006334</b>	---	---
Sample Date		Client Info		<b>08 Feb 2024</b>	---	---
Machine Age	hrs	Client Info		<b>452</b>	---	---
Oil Age	hrs	Client Info		<b>0</b>	---	---
Filter Age	hrs	Client Info		<b>0</b>	---	---
Oil Changed		Client Info		<b>Not Chngd</b>	---	---
Filter Changed		Client Info		<b>Changed</b>	---	---
Sample Status				<b>NORMAL</b>	---	---

## WEAR

All component wear rates are normal.

PQ		ASTM D8184	>95	<b>16</b>	---	---
Iron	ppm	ASTM D5185m	>200	<b>9</b>	---	---
Chromium	ppm	ASTM D5185m	>5	<b>0</b>	---	---
Nickel	ppm	ASTM D5185m	>5	<b>0</b>	---	---
Titanium	ppm	ASTM D5185m		<b>0</b>	---	---
Silver	ppm	ASTM D5185m	>7	<b>0</b>	---	---
Aluminum	ppm	ASTM D5185m	>25	<b>0</b>	---	---
Lead	ppm	ASTM D5185m	>45	<b>0</b>	---	---
Copper	ppm	ASTM D5185m	>225	<b>&lt;1</b>	---	---
Tin	ppm	ASTM D5185m	>10	<b>0</b>	---	---
Vanadium	ppm	ASTM D5185m		<b>0</b>	---	---
White Metal	scalar	*Visual	NONE	<b>NONE</b>	---	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	---	---

## CONTAMINATION

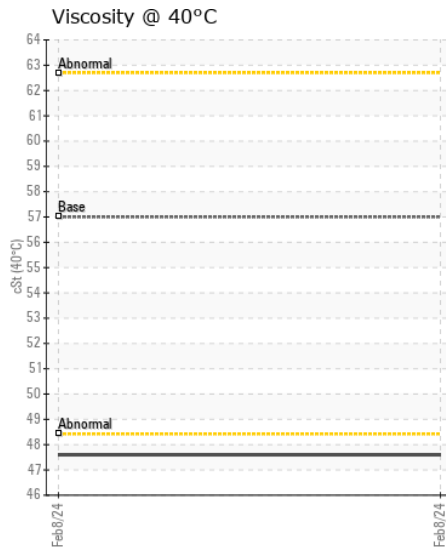
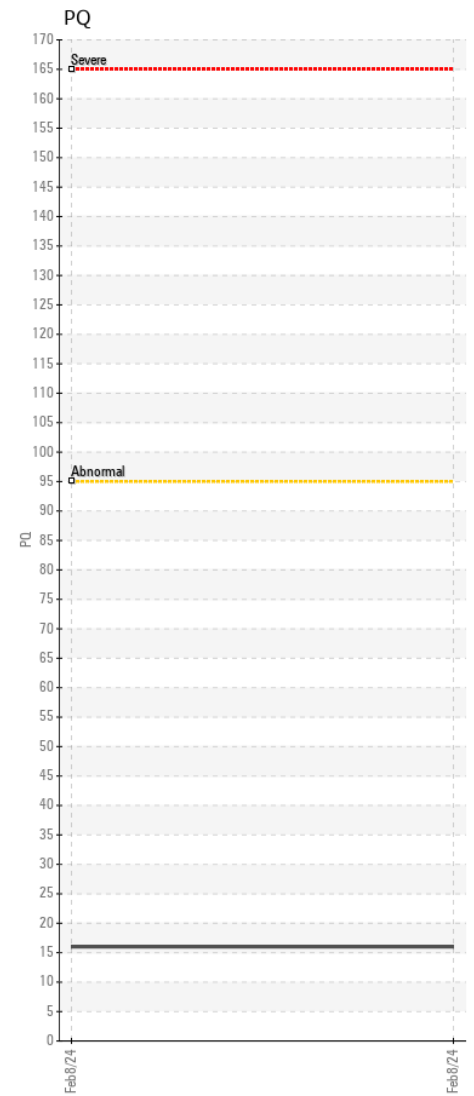
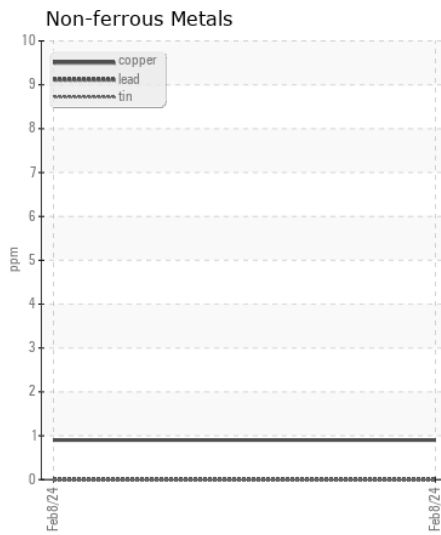
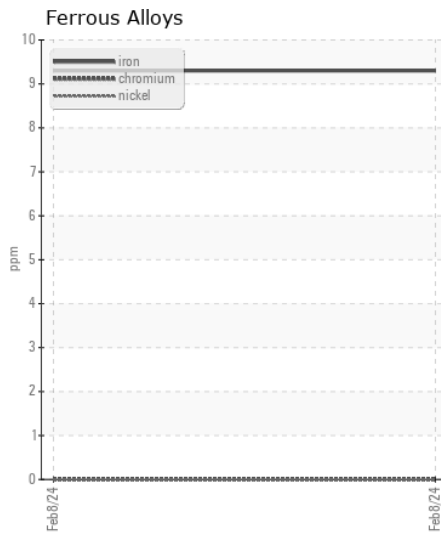
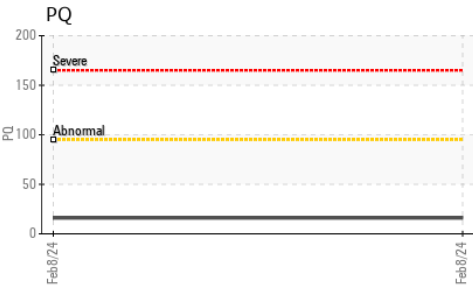
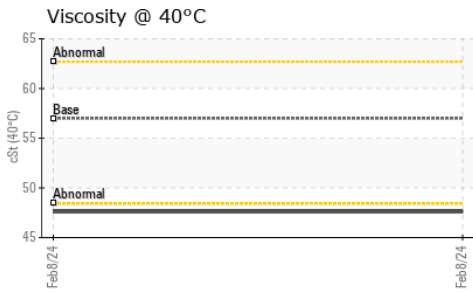
There is no indication of any contamination in the fluid.

Silicon	ppm	ASTM D5185m	>125	<b>3</b>	---	---
Potassium	ppm	ASTM D5185m	>20	<b>0</b>	---	---
Water		WC Method	>0.1	<b>NEG</b>	---	---
Silt	scalar	*Visual	NONE	<b>NONE</b>	---	---
Debris	scalar	*Visual	NONE	<b>NONE</b>	---	---
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	---	---
Appearance	scalar	*Visual	NORML	<b>NORML</b>	---	---
Odor	scalar	*Visual	NORML	<b>NORML</b>	---	---
Emulsified Water	scalar	*Visual	>0.1	<b>NEG</b>	---	---

## FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		<b>9</b>	---	---
Boron	ppm	ASTM D5185m	6	<b>0</b>	---	---
Barium	ppm	ASTM D5185m	0	<b>0</b>	---	---
Molybdenum	ppm	ASTM D5185m	0	<b>0</b>	---	---
Manganese	ppm	ASTM D5185m		<b>0</b>	---	---
Magnesium	ppm	ASTM D5185m	145	<b>95</b>	---	---
Calcium	ppm	ASTM D5185m	3570	<b>3517</b>	---	---
Phosphorus	ppm	ASTM D5185m	1290	<b>1072</b>	---	---
Zinc	ppm	ASTM D5185m	1640	<b>1363</b>	---	---
Sulfur	ppm	ASTM D5185m		<b>3687</b>	---	---
Visc @ 40°C	cSt	ASTM D445	57.0	<b>47.6</b>	---	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513

**Sample No.** : WE0006334

**Lab Number** : 06086217

**Unique Number** : 10873662

**Test Package** : CONST ( Additional Tests: PQ )

**Received** : 12 Feb 2024

**Tested** : 13 Feb 2024

**Diagnosed** : 13 Feb 2024 - Wes Davis

**WARRIOR TRACTOR AND EQUIPMENT - NORTHPORT**

P.O. BOX 412

NORTHPORT, AL

US 35476

Contact: CRAIG ANDOE

serve01@warriortractor.com

T: (205)339-0300

F:

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)