



# OIL ANALYSIS REPORT

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

Machine Id  
**JOHN DEERE 644P 1DW644PAJMLZ13178**  
 Component  
**Rear 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>WE0006275</b>	WE0001052	---
Sample Date		Client Info		<b>26 Feb 2024</b>	17 Jan 2022	---
Machine Age	hrs	Client Info		<b>6442</b>	653	---
Oil Age	hrs	Client Info		<b>1</b>	653	---
Filter Age	hrs	Client Info		<b>1</b>	653	---
Oil Changed		Client Info		<b>Changed</b>	Not Changed	---
Filter Changed		Client Info		<b>Changed</b>	Changed	---
Sample Status				<b>NORMAL</b>	ABNORMAL	---

## WEAR

All component wear rates are normal.

PQ	UOM	Method	Limit/Abn	Current	History1	History2
PQ		ASTM D8184		<b>9</b>	---	---
Iron	ppm	ASTM D5185m	>500	<b>&lt;1</b>	161	---
Chromium	ppm	ASTM D5185m	>10	<b>0</b>	<1	---
Nickel	ppm	ASTM D5185m	>10	<b>0</b>	<1	---
Titanium	ppm	ASTM D5185m		<b>0</b>	0	---
Silver	ppm	ASTM D5185m		<b>0</b>	0	---
Aluminum	ppm	ASTM D5185m	>25	<b>&lt;1</b>	3	---
Lead	ppm	ASTM D5185m	>25	<b>&lt;1</b>	▲ 71	---
Copper	ppm	ASTM D5185m	>100	<b>0</b>	▲ 153	---
Tin	ppm	ASTM D5185m	>10	<b>0</b>	8	---
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	---
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---

## CONTAMINATION

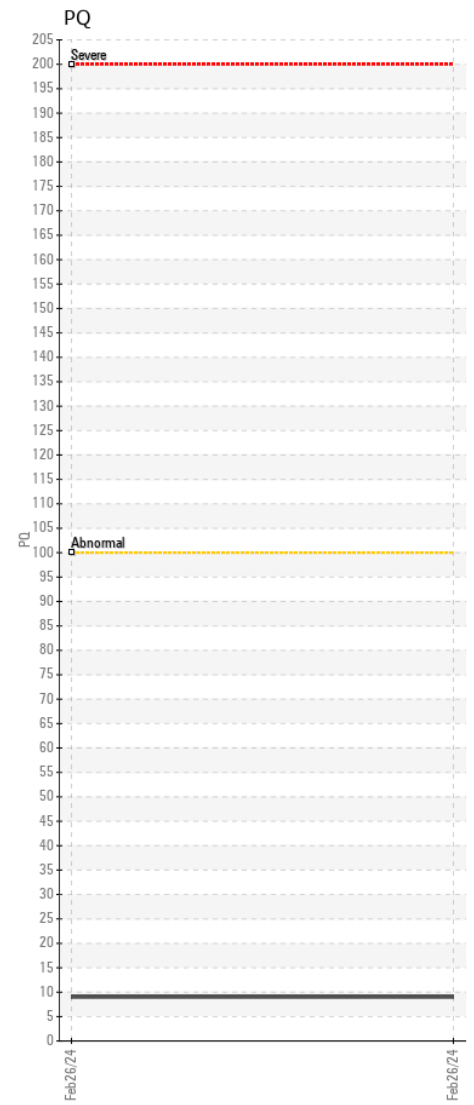
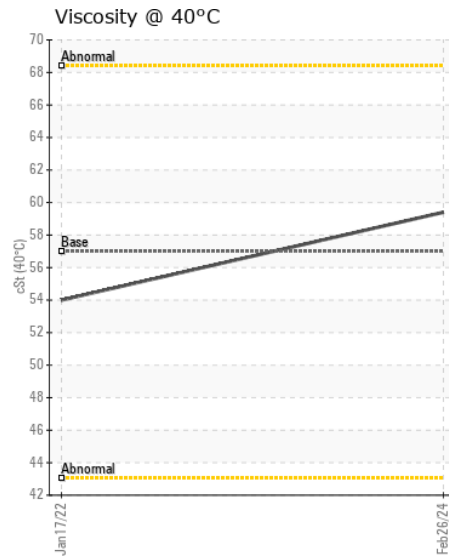
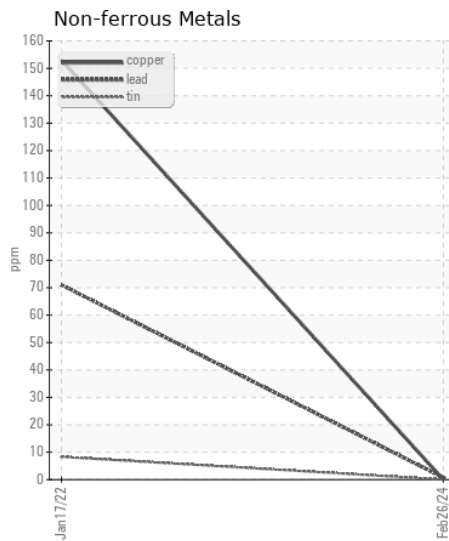
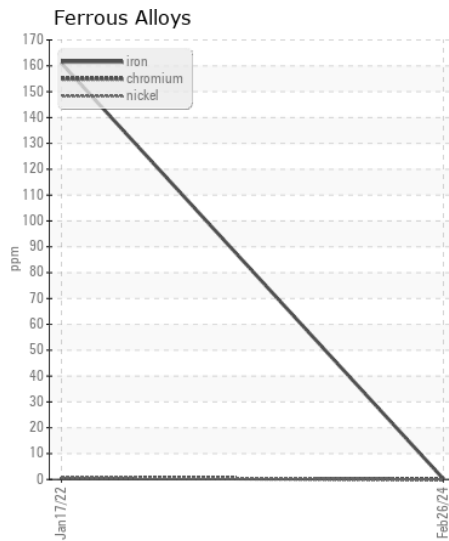
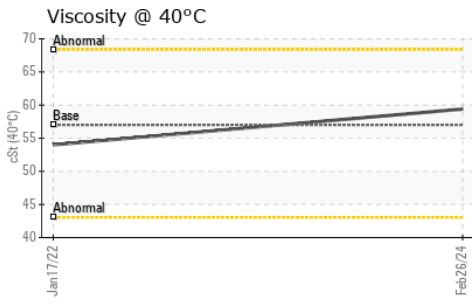
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>75	<b>6</b>	7	---
Potassium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	2	---
Water		WC Method	>.2	<b>NEG</b>	NEG	---
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Debris	scalar	*Visual	NONE	<b>NONE</b>	▲ MODER	---
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>&lt;1</b>	0	---
Boron	ppm	ASTM D5185m	6	<b>6</b>	2	---
Barium	ppm	ASTM D5185m	0	<b>0</b>	6	---
Molybdenum	ppm	ASTM D5185m	0	<b>0</b>	<1	---
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	4	---
Magnesium	ppm	ASTM D5185m	145	<b>112</b>	90	---
Calcium	ppm	ASTM D5185m	3570	<b>3382</b>	3173	---
Phosphorus	ppm	ASTM D5185m	1290	<b>1105</b>	984	---
Zinc	ppm	ASTM D5185m	1640	<b>1315</b>	1180	---
Sulfur	ppm	ASTM D5185m		<b>3871</b>	2959	---
Visc @ 40°C	cSt	ASTM D445	57.0	<b>59.4</b>	54.0	---



Certificate L2367

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

**Sample No.** : WE0006275

**Lab Number** : 06101924

**Unique Number** : 10900154

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

**Received** : 27 Feb 2024

**Tested** : 28 Feb 2024

**Diagnosed** : 28 Feb 2024 - Wes Davis

**WARRIOR TRACTOR AND EQUIPMENT - NORTHPORT**

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NORTHPORT, AL

US 35476

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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)