



# OIL ANALYSIS REPORT

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



Area  
**[127448]**  
 Machine Id  
**JOHN DEERE 644P 1DW644PAPNLZ13910**  
 Component  
**Rear Differential**  
 Fluid  
**JOHN DEERE HY-GARD HYD/TRANS (--- QTS)**

## RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WE0007935</b>	---	---
Sample Date		Client Info		<b>01 Jul 2024</b>	---	---
Machine Age	hrs	Client Info		<b>641</b>	---	---
Oil Age	hrs	Client Info		<b>0</b>	---	---
Filter Age	hrs	Client Info		<b>0</b>	---	---
Oil Changed		Client Info		<b>N/A</b>	---	---
Filter Changed		Client Info		<b>Changed</b>	---	---
Sample Status				<b>ABNORMAL</b>	---	---

## WEAR

Bearing and/or bushing wear is indicated. All other metal levels are typical for a new component breaking in.

PQ		ASTM D8184		<b>21</b>	---	---
Iron	ppm	ASTM D5185m	>500	<b>78</b>	---	---
Chromium	ppm	ASTM D5185m	>10	<b>0</b>	---	---
Nickel	ppm	ASTM D5185m	>10	<b>0</b>	---	---
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	---	---
Silver	ppm	ASTM D5185m		<b>&lt;1</b>	---	---
Aluminum	ppm	ASTM D5185m	>25	<b>&lt;1</b>	---	---
Lead	ppm	ASTM D5185m	>25	<b>▲ 65</b>	---	---
Copper	ppm	ASTM D5185m	>100	<b>▲ 309</b>	---	---
Tin	ppm	ASTM D5185m	>10	<b>2</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

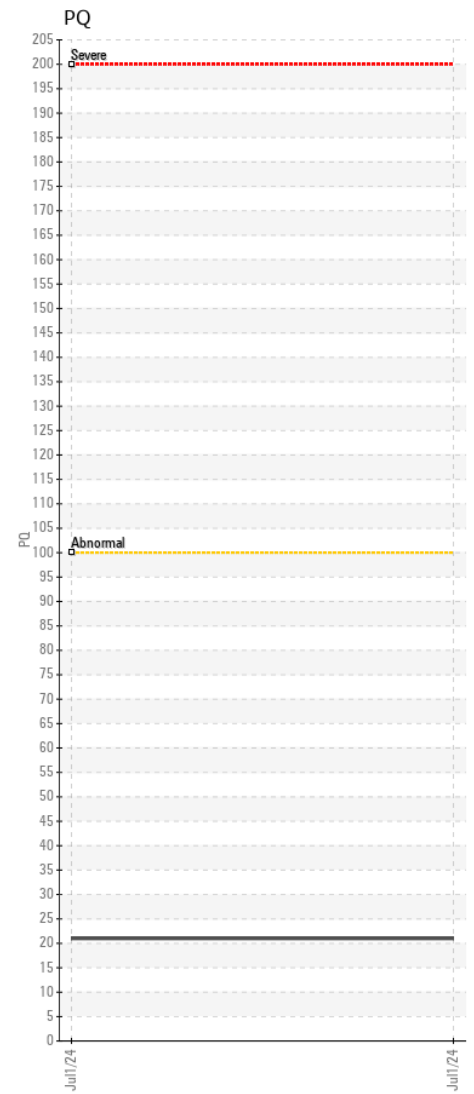
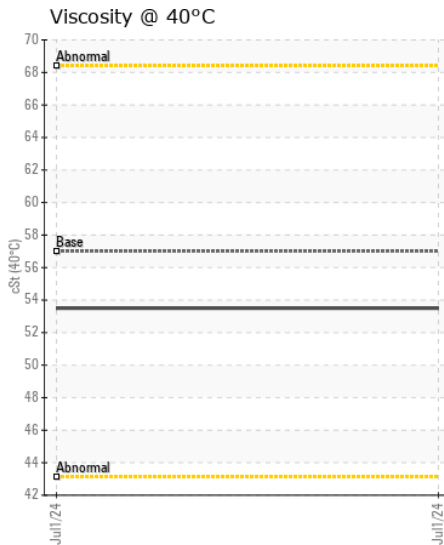
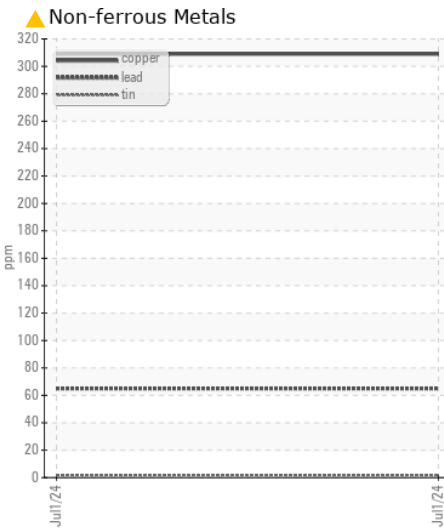
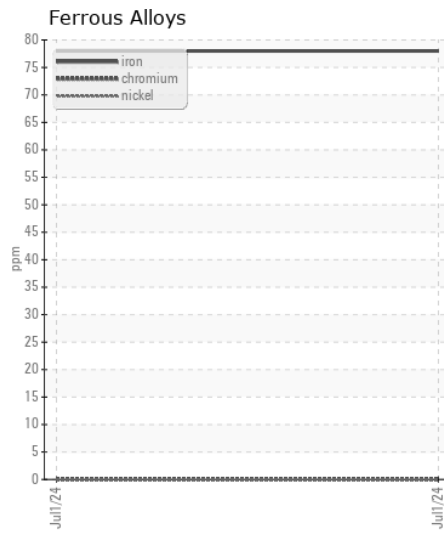
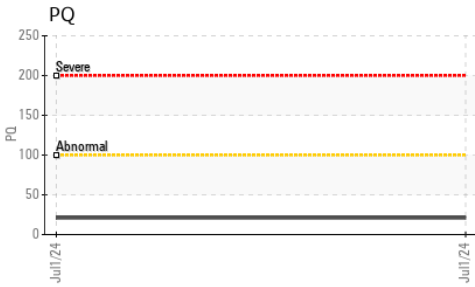
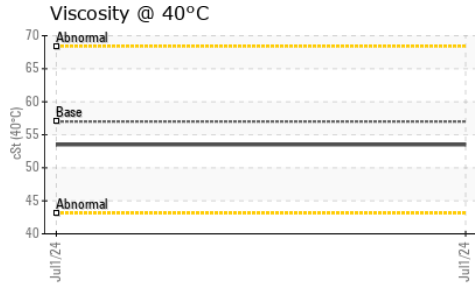
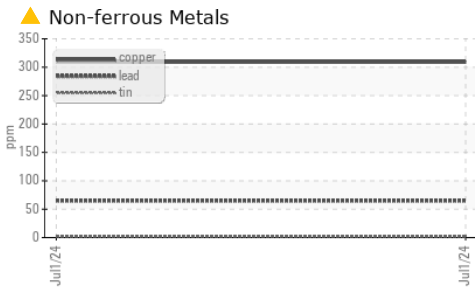
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>75	<b>6</b>	---	---
Potassium	ppm	ASTM D5185m	>20	<b>3</b>	---	---
Water		WC Method	>.2	<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	>.2	<b>NEG</b>	---	---

## FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		<b>7</b>	---	---
Boron	ppm	ASTM D5185m	6	<b>2</b>	---	---
Barium	ppm	ASTM D5185m	0	<b>5</b>	---	---
Molybdenum	ppm	ASTM D5185m	0	<b>0</b>	---	---
Manganese	ppm	ASTM D5185m		<b>4</b>	---	---
Magnesium	ppm	ASTM D5185m	145	<b>103</b>	---	---
Calcium	ppm	ASTM D5185m	3570	<b>3492</b>	---	---
Phosphorus	ppm	ASTM D5185m	1290	<b>1098</b>	---	---
Zinc	ppm	ASTM D5185m	1640	<b>1257</b>	---	---
Sulfur	ppm	ASTM D5185m		<b>4358</b>	---	---
Visc @ 40°C	cSt	ASTM D445	57.0	<b>53.5</b>	---	---



Certificate L2367

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

**Sample No.** : WE0007935

**Lab Number** : 06227785

**Unique Number** : 11111278

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

**Received** : 03 Jul 2024

**Tested** : 05 Jul 2024

**Diagnosed** : 06 Jul 2024 - Don Baldrige

**WARRIOR TRACTOR AND EQUIPMENT - NORTHPORT**

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US 35476

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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)