



# OIL ANALYSIS REPORT

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



Area  
**[A35771]**  
 Machine Id  
**JOHN DEERE 644P 1DW644PAARLX23263**  
 Component  
**Front Differential**  
 Fluid  
**JOHN DEERE HY-GARD HYD/TRANS (30 GAL)**

## RECOMMENDATION

We recommend that you drain the oil from the component if this has not already been done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. ( Customer Sample Comment: A35771 )

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WE0007692</b>	---	---
Sample Date		Client Info		<b>11 Jul 2024</b>	---	---
Machine Age	hrs	Client Info		<b>574</b>	---	---
Oil Age	hrs	Client Info		<b>574</b>	---	---
Filter Age	hrs	Client Info		<b>574</b>	---	---
Oil Changed		Client Info		<b>Not Changed</b>	---	---
Filter Changed		Client Info		<b>Not Changed</b>	---	---
Sample Status				<b>SEVERE</b>	---	---

## WEAR

Bearing and/or bushing wear is indicated.

PQ		ASTM D8184		<b>68</b>	---	---
Iron	ppm	ASTM D5185m	>500	<b>331</b>	---	---
Chromium	ppm	ASTM D5185m	>10	<b>4</b>	---	---
Nickel	ppm	ASTM D5185m	>10	<b>2</b>	---	---
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	---	---
Silver	ppm	ASTM D5185m		<b>0</b>	---	---
Aluminum	ppm	ASTM D5185m	>25	<b>2</b>	---	---
Lead	ppm	ASTM D5185m	>25	<b>▲ 60</b>	---	---
Copper	ppm	ASTM D5185m	>100	<b>▲ 1222</b>	---	---
Tin	ppm	ASTM D5185m	>10	<b>1</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

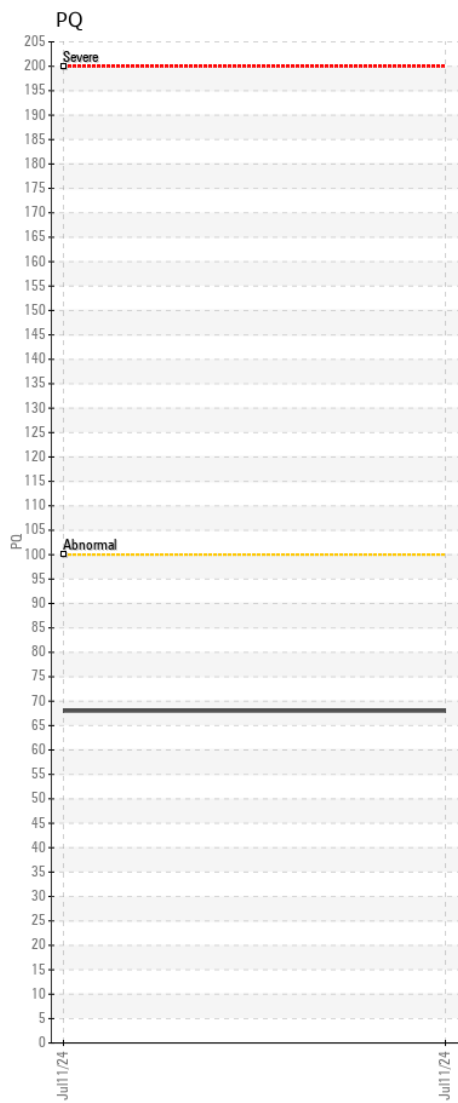
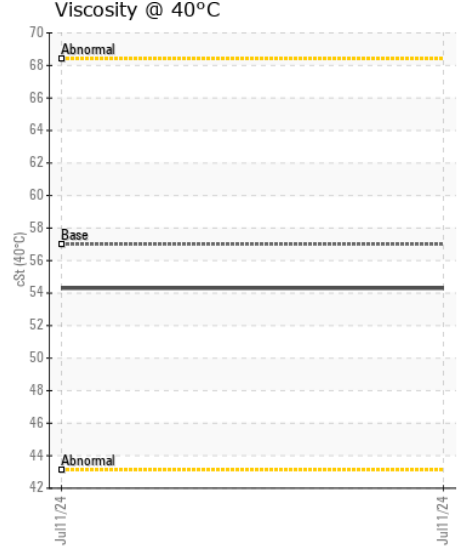
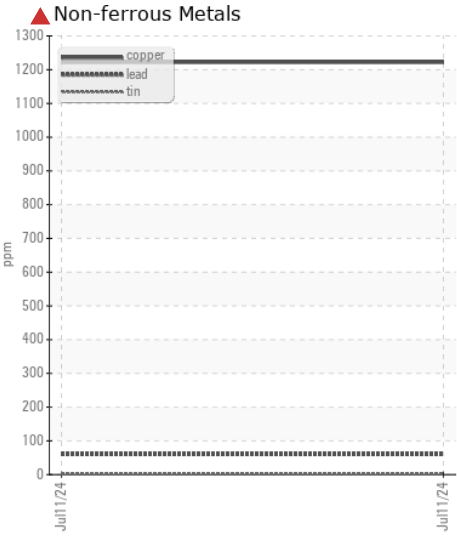
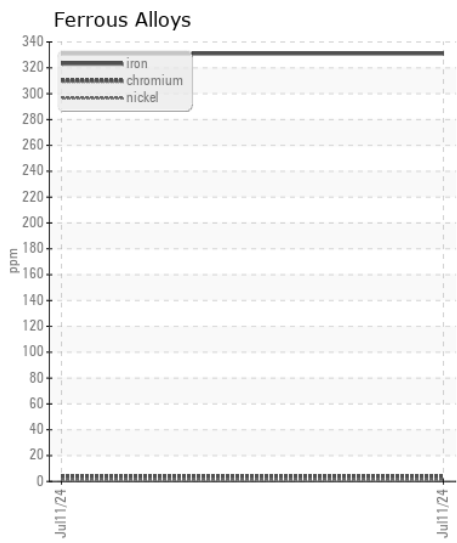
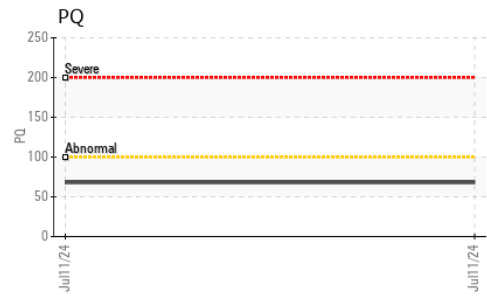
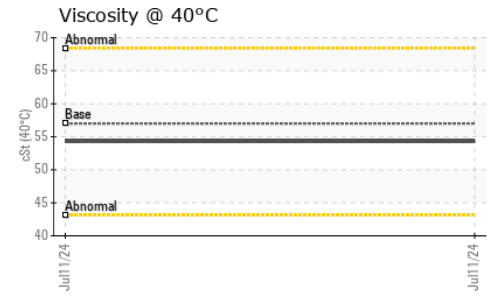
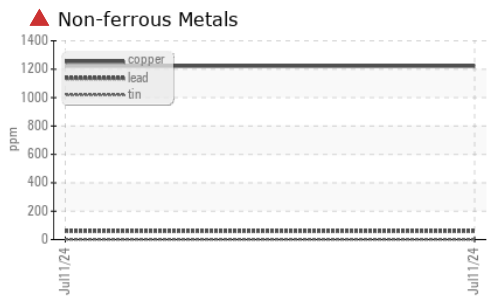
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>75	<b>11</b>	---	---
Potassium	ppm	ASTM D5185m	>20	<b>4</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 oil is no longer serviceable as a result of the abnormal and/or severe wear.

Sodium	ppm	ASTM D5185m		<b>8</b>	---	---
Boron	ppm	ASTM D5185m	6	<b>15</b>	---	---
Barium	ppm	ASTM D5185m	0	<b>4</b>	---	---
Molybdenum	ppm	ASTM D5185m	0	<b>1</b>	---	---
Manganese	ppm	ASTM D5185m		<b>9</b>	---	---
Magnesium	ppm	ASTM D5185m	145	<b>55</b>	---	---
Calcium	ppm	ASTM D5185m	3570	<b>3023</b>	---	---
Phosphorus	ppm	ASTM D5185m	1290	<b>1082</b>	---	---
Zinc	ppm	ASTM D5185m	1640	<b>698</b>	---	---
Sulfur	ppm	ASTM D5185m		<b>4542</b>	---	---
Visc @ 40°C	cSt	ASTM D445	57.0	<b>54.3</b>	---	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WE0007692 **Received** : 15 Jul 2024  
**Lab Number** : 06236440 **Tested** : 16 Jul 2024  
**Unique Number** : 11125274 **Diagnosed** : 17 Jul 2024 - Sean Felton  
**Test Package** : CONST ( Additional Tests: PQ )

**WARRIOR TRACTOR AND EQUIPMENT - HUNTSVILLE**  
 25135 ONE AVIATION WAY SW  
 MADISON, AL  
 US 35756  
 Contact: BOBBY LUCKY  
 warriorparts033@gmail.com

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)

T:  
F: