



# OIL ANALYSIS REPORT

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

Area  
**[127684]**

Machine Id  
**JOHN DEERE 624P 1DW624PAANLZ16271**

Component  
**Rear Differential**

Fluid  
**JOHN DEERE HY-GARD HYD/TRANS (--- QTS)**

## RECOMMENDATION

The oil change at the time of sampling has been noted. 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>WE0007898</b>	WE0006898	WE0006466
Sample Date		Client Info		<b>11 Jul 2024</b>	12 Apr 2024	29 Dec 2023
Machine Age	hrs	Client Info		<b>4507</b>	3973	3451
Oil Age	hrs	Client Info		<b>0</b>	0	0
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Changed</b>	Changed	N/A
Filter Changed		Client Info		<b>Changed</b>	Changed	N/A
Sample Status				<b>ABNORMAL</b>	NORMAL	ABNORMAL

## WEAR

The lead level is abnormal. All other component wear rates are normal.

PQ		ASTM D8184		<b>19</b>	23	21
Iron	ppm	ASTM D5185m	>500	<b>49</b>	73	78
Chromium	ppm	ASTM D5185m	>10	<b>&lt;1</b>	0	<1
Nickel	ppm	ASTM D5185m	>10	<b>0</b>	0	<1
Titanium	ppm	ASTM D5185m		<b>0</b>	<1	<1
Silver	ppm	ASTM D5185m		<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185m	>25	<b>3</b>	2	1
Lead	ppm	ASTM D5185m	>25	<b>▲ 96</b>	31	<b>▲ 113</b>
Copper	ppm	ASTM D5185m	>100	<b>52</b>	101	<b>▲ 122</b>
Tin	ppm	ASTM D5185m	>10	<b>0</b>	3	1
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

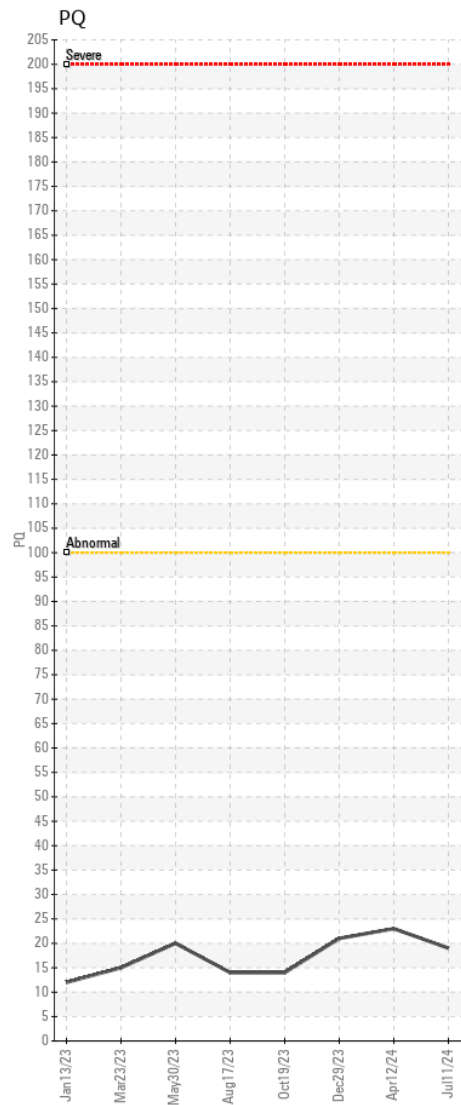
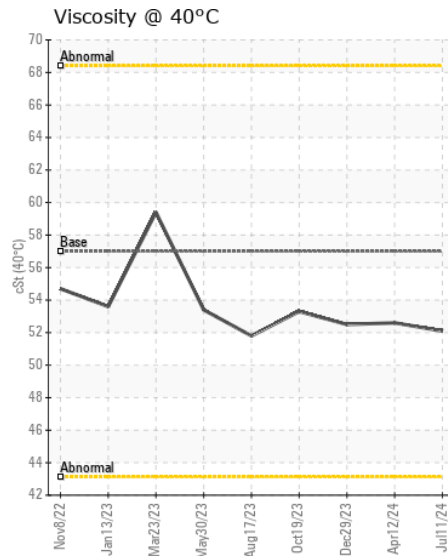
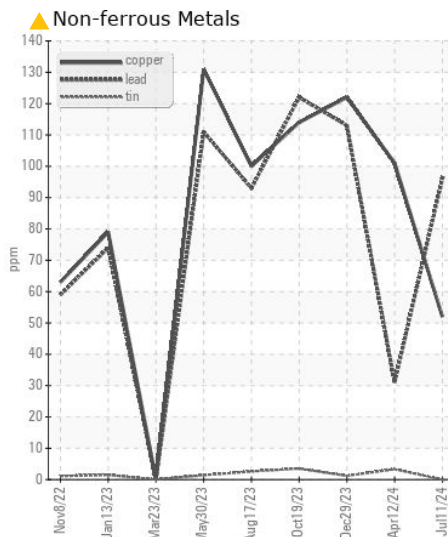
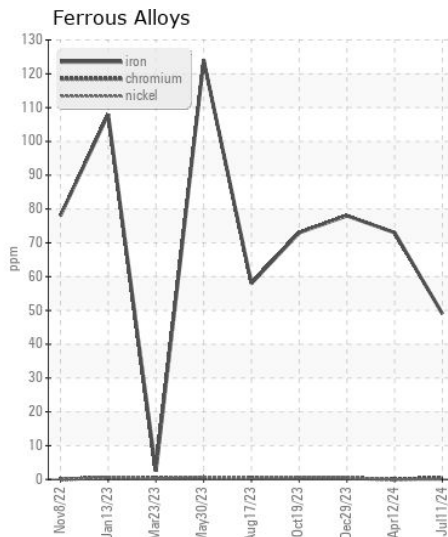
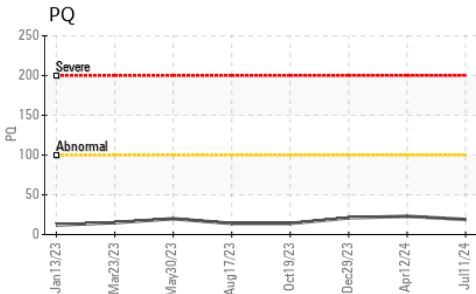
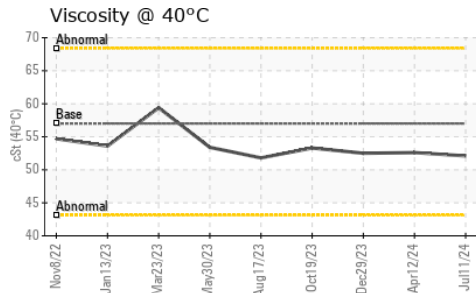
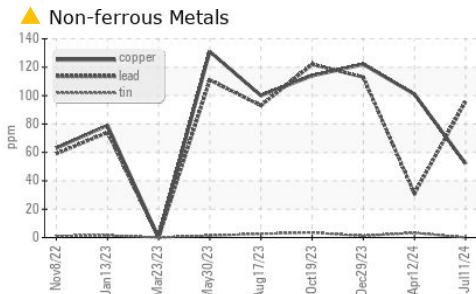
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>75	<b>9</b>	16	8
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	2	1
Water		WC Method	>.2	<b>NEG</b>	NEG	NEG
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>.2	<b>NEG</b>	NEG	NEG

## FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		<b>&lt;1</b>	7	6
Boron	ppm	ASTM D5185m	6	<b>1</b>	<1	<1
Barium	ppm	ASTM D5185m	0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	0	<b>0</b>	<1	0
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	2	1
Magnesium	ppm	ASTM D5185m	145	<b>93</b>	90	91
Calcium	ppm	ASTM D5185m	3570	<b>3231</b>	3673	3292
Phosphorus	ppm	ASTM D5185m	1290	<b>917</b>	1116	1065
Zinc	ppm	ASTM D5185m	1640	<b>1201</b>	1238	1253
Sulfur	ppm	ASTM D5185m		<b>3804</b>	4360	3714
Visc @ 40°C	cSt	ASTM D445	57.0	<b>52.1</b>	52.6	52.5



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WE0007898 **Received** : 16 Jul 2024  
**Lab Number** : 06238063 **Tested** : 17 Jul 2024  
**Unique Number** : 11126897 **Diagnosed** : 18 Jul 2024 - Don Baldridge  
**Test Package** : CONST ( Additional Tests: PQ )

**WARRIOR TRACTOR AND EQUIPMENT - NORTHPORT**  
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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)