



# OIL ANALYSIS REPORT

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

Machine Id  
**JOHN DEERE 624P 1DW624PAANLZ16271**  
 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>WE0006898</b>	WE0006466	WE0005164
Sample Date		Client Info		<b>12 Apr 2024</b>	29 Dec 2023	19 Oct 2023
Machine Age	hrs	Client Info		<b>3973</b>	3451	2957
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>	N/A	Not Changd
Filter Changed		Client Info		<b>Changed</b>	N/A	Changed
Sample Status				<b>NORMAL</b>	ABNORMAL	ABNORMAL

## WEAR

All component wear rates are normal.

PQ	UOM	Method	Limit/Abn	Current	History1	History2
PQ		ASTM D8184		<b>23</b>	21	14
Iron	ppm	ASTM D5185m	>500	<b>73</b>	78	73
Chromium	ppm	ASTM D5185m	>10	<b>0</b>	<1	<1
Nickel	ppm	ASTM D5185m	>10	<b>0</b>	<1	<1
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Silver	ppm	ASTM D5185m		<b>0</b>	<1	0
Aluminum	ppm	ASTM D5185m	>25	<b>2</b>	1	2
Lead	ppm	ASTM D5185m	>25	<b>31</b>	▲ 113	▲ 122
Copper	ppm	ASTM D5185m	>100	<b>101</b>	▲ 122	▲ 114
Tin	ppm	ASTM D5185m	>10	<b>3</b>	1	4
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

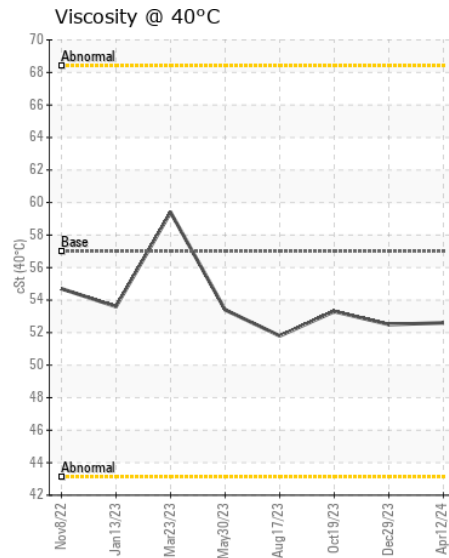
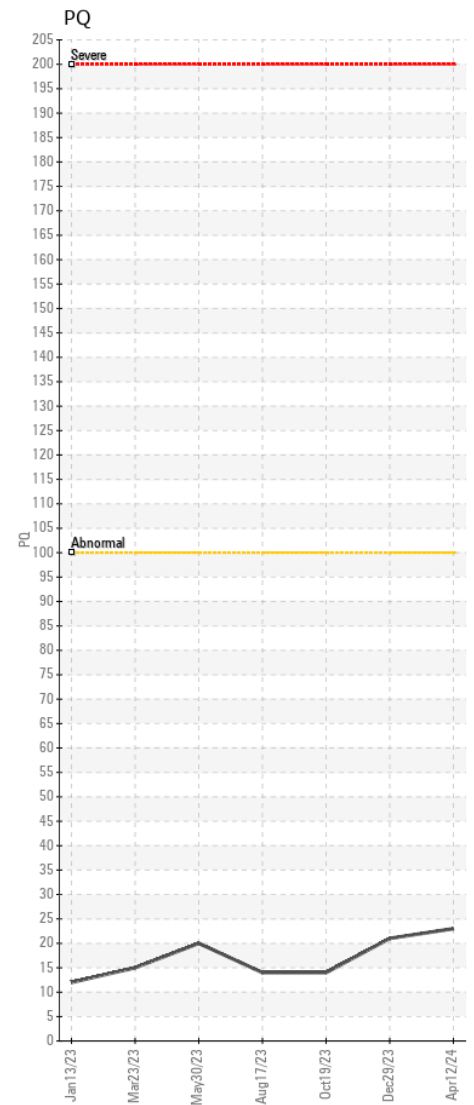
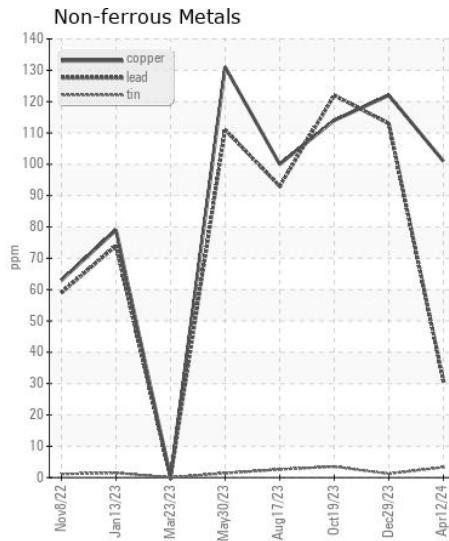
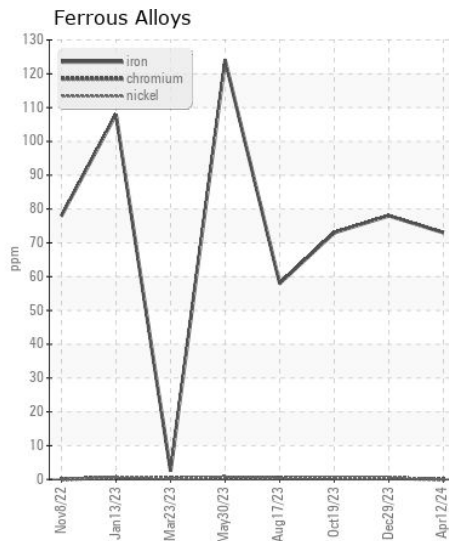
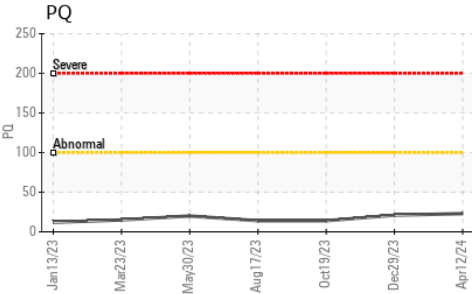
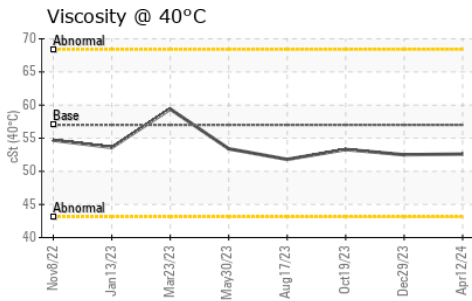
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>75	<b>16</b>	8	8
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	1	2
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	▲ MODER
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>7</b>	6	<1
Boron	ppm	ASTM D5185m	6	<b>&lt;1</b>	<1	0
Barium	ppm	ASTM D5185m	0	<b>0</b>	0	10
Molybdenum	ppm	ASTM D5185m	0	<b>&lt;1</b>	0	<1
Manganese	ppm	ASTM D5185m		<b>2</b>	1	2
Magnesium	ppm	ASTM D5185m	145	<b>90</b>	91	87
Calcium	ppm	ASTM D5185m	3570	<b>3673</b>	3292	2996
Phosphorus	ppm	ASTM D5185m	1290	<b>1116</b>	1065	1141
Zinc	ppm	ASTM D5185m	1640	<b>1238</b>	1253	1208
Sulfur	ppm	ASTM D5185m		<b>4360</b>	3714	4396
Visc @ 40°C	cSt	ASTM D445	57.0	<b>52.6</b>	52.5	53.3



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WE0006898 **Received** : 17 Apr 2024  
**Lab Number** : 06152217 **Tested** : 18 Apr 2024  
**Unique Number** : 10982295 **Diagnosed** : 22 Apr 2024 - Don Baldrige  
**Test Package** : CONST ( Additional Tests: PQ )

**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)