



# OIL ANALYSIS REPORT

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

Machine Id  
**JOHN DEERE 624P 1DW624PANVLZ16592**

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>WE0006457</b>	WE0005823	WE0005047
Sample Date		Client Info		<b>06 Feb 2024</b>	08 Nov 2023	31 Aug 2023
Machine Age	hrs	Client Info		<b>3544</b>	2956	2510
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>Not Changd</b>	N/A	N/A
Filter Changed		Client Info		<b>Not Changd</b>	Changed	N/A
Sample Status				<b>ABNORMAL</b>	ABNORMAL	ABNORMAL

## WEAR

Bearing and/or bushing wear is indicated. All other component wear rates are normal.

PQ	UOM	Method	Limit/Abn	Current	History1	History2
PQ		ASTM D8184		<b>19</b>	16	16
Iron	ppm	ASTM D5185m	>500	<b>171</b>	85	69
Chromium	ppm	ASTM D5185m	>10	<b>1</b>	<1	<1
Nickel	ppm	ASTM D5185m	>10	<b>&lt;1</b>	<1	0
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>25	<b>5</b>	3	2
Lead	ppm	ASTM D5185m	>25	<b>▲ 281</b>	▲ 148	▲ 114
Copper	ppm	ASTM D5185m	>100	<b>▲ 139</b>	90	61
Tin	ppm	ASTM D5185m	>10	<b>&lt;1</b>	<1	<1
Vanadium	ppm	ASTM D5185m		<b>0</b>	<1	<1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

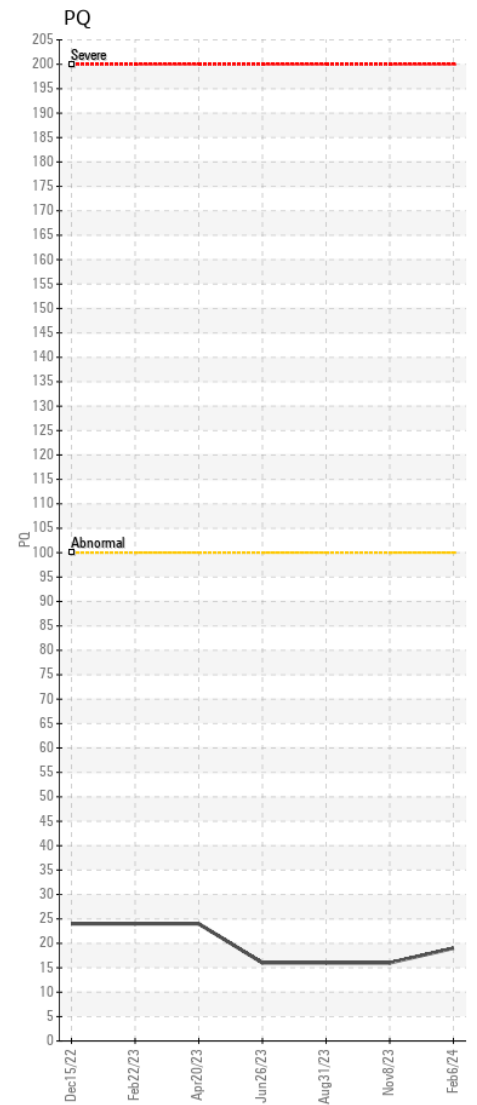
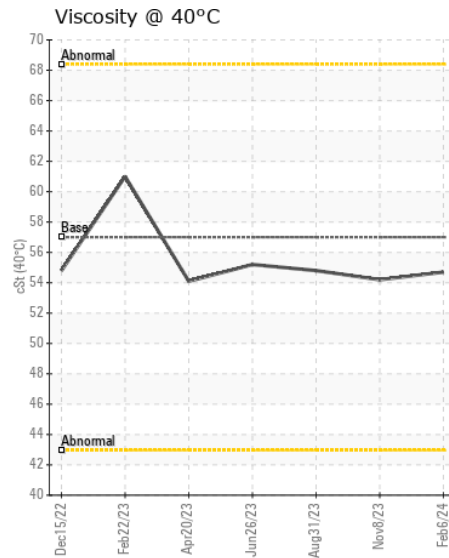
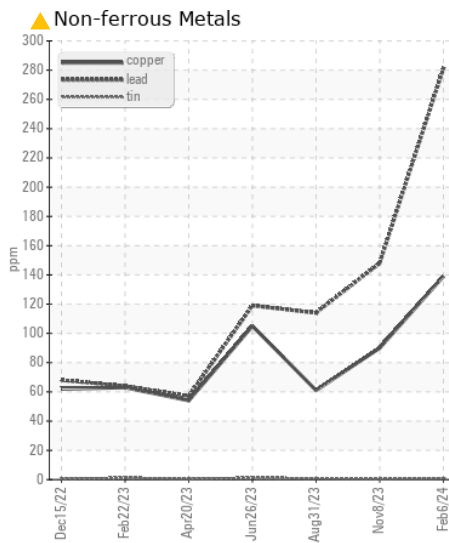
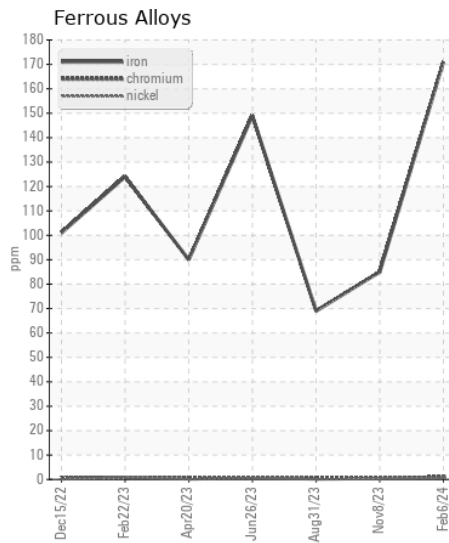
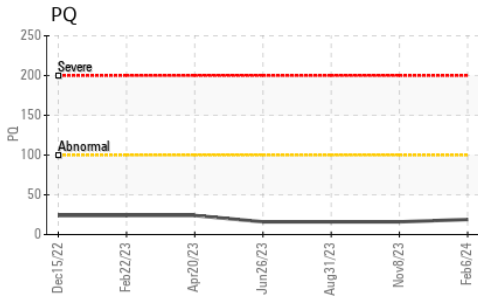
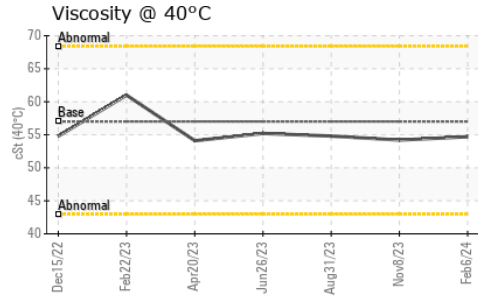
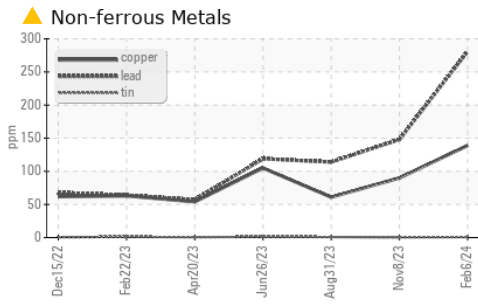
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>75	<b>18</b>	9	10
Potassium	ppm	ASTM D5185m	>20	<b>4</b>	1	0
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>16</b>	4	8
Boron	ppm	ASTM D5185m	6	<b>5</b>	5	2
Barium	ppm	ASTM D5185m	0	<b>0</b>	7	0
Molybdenum	ppm	ASTM D5185m	0	<b>&lt;1</b>	<1	3
Manganese	ppm	ASTM D5185m		<b>2</b>	<1	2
Magnesium	ppm	ASTM D5185m	145	<b>159</b>	92	102
Calcium	ppm	ASTM D5185m	3570	<b>4442</b>	3243	3404
Phosphorus	ppm	ASTM D5185m	1290	<b>1742</b>	1135	1000
Zinc	ppm	ASTM D5185m	1640	<b>1666</b>	1142	1147
Sulfur	ppm	ASTM D5185m		<b>6546</b>	4540	4110
Visc @ 40°C	cSt	ASTM D445	57.0	<b>54.7</b>	54.2	54.8



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WE0006457 **Received** : 08 Feb 2024  
**Lab Number** : 06083896 **Tested** : 09 Feb 2024  
**Unique Number** : 10871341 **Diagnosed** : 11 Feb 2024 - Don Baldrige  
**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)