



# OIL ANALYSIS REPORT

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

Area

[127684]

Machine Id

JOHN DEERE 624P 1DW624PAANLZ16271

Component

Front 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>WE0007899</b>	WE0006901	WE0006465
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>N/A</b>	Changed	N/A
Filter Changed		Client Info		<b>N/A</b>	Changed	N/A
Sample Status				<b>NORMAL</b>	NORMAL	ABNORMAL

## WEAR

All component wear rates are normal.

PQ		ASTM D8184		<b>21</b>	25	18
Iron	ppm	ASTM D5185m	>500	<b>31</b>	69	50
Chromium	ppm	ASTM D5185m	>10	<b>&lt;1</b>	<1	<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	0
Aluminum	ppm	ASTM D5185m	>25	<b>3</b>	2	2
Lead	ppm	ASTM D5185m	>25	<b>26</b>	31	29
Copper	ppm	ASTM D5185m	>100	<b>93</b>	92	88
Tin	ppm	ASTM D5185m	>10	<b>4</b>	3	3
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

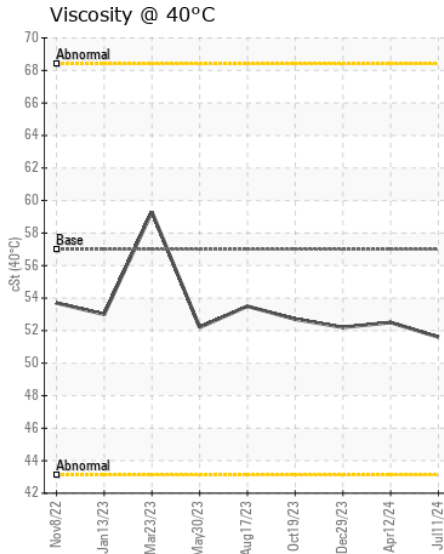
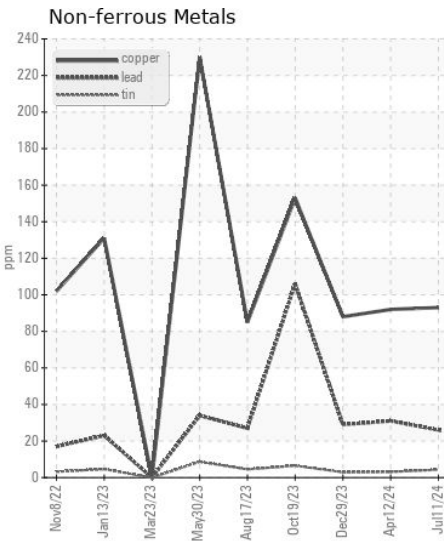
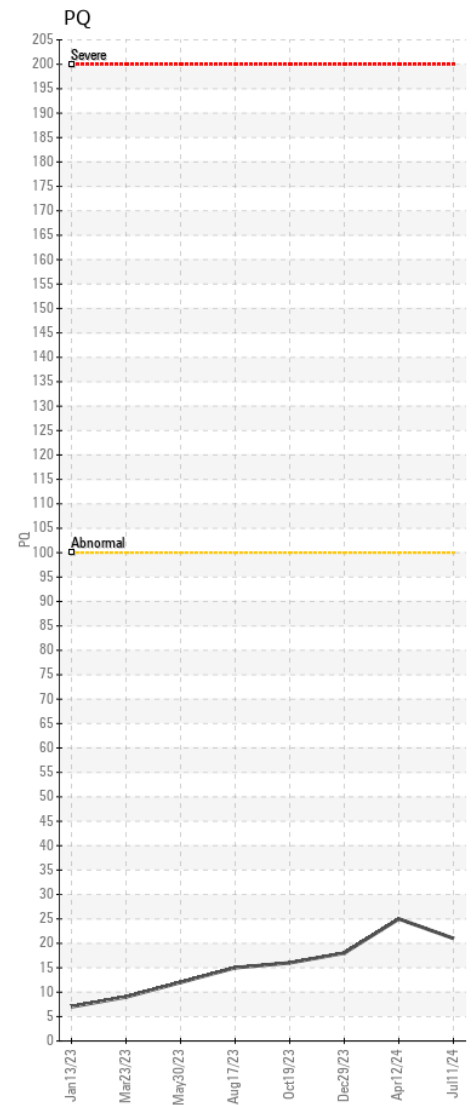
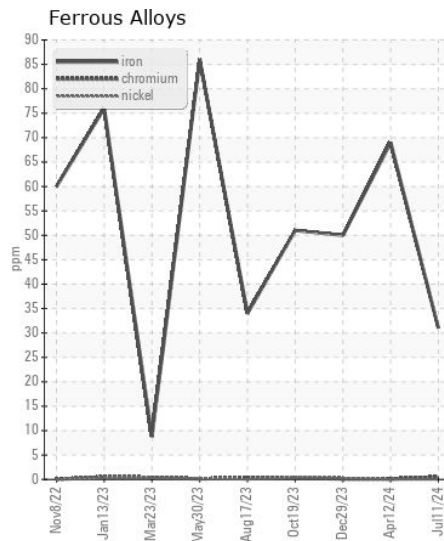
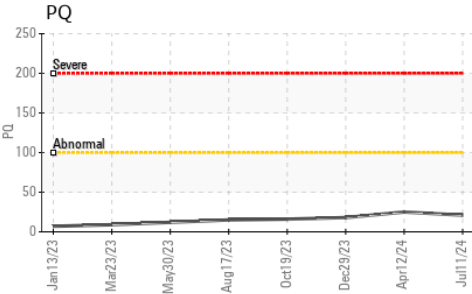
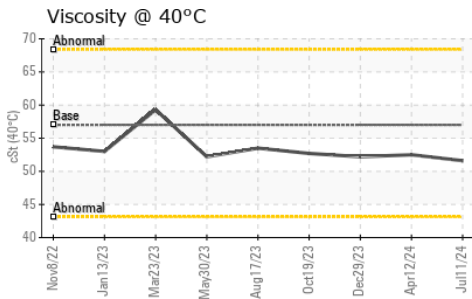
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>75	<b>5</b>	11	8
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	3	<1
Water		WC Method	>.2	<b>NEG</b>	NEG	NEG
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>LIGHT</b>	LIGHT	▲ 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>1</b>	6	6
Boron	ppm	ASTM D5185m	6	<b>1</b>	2	<1
Barium	ppm	ASTM D5185m	0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	0	<b>0</b>	0	0
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	2	1
Magnesium	ppm	ASTM D5185m	145	<b>93</b>	87	90
Calcium	ppm	ASTM D5185m	3570	<b>3299</b>	3544	3460
Phosphorus	ppm	ASTM D5185m	1290	<b>917</b>	1096	1068
Zinc	ppm	ASTM D5185m	1640	<b>1273</b>	1229	1250
Sulfur	ppm	ASTM D5185m		<b>3473</b>	4379	3737
Visc @ 40°C	cSt	ASTM D445	57.0	<b>51.6</b>	52.5	52.2



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WE0007899 **Received** : 16 Jul 2024  
**Lab Number** : 06238089 **Tested** : 17 Jul 2024  
**Unique Number** : 11126923 **Diagnosed** : 18 Jul 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)