



# OIL ANALYSIS REPORT

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

Area  
**[127638]**

Machine Id  
**JOHN DEERE 460P 1DW460PAKPFB06206**

Component  
**Center 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>WE0007872</b>	WE0006863	WE0006368
Sample Date		Client Info		<b>09 Jul 2024</b>	04 Apr 2024	30 Jan 2024
Machine Age	hrs	Client Info		<b>3050</b>	2448	2053
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>	N/A	Changed
Filter Changed		Client Info		<b>N/A</b>	N/A	Changed
Sample Status				<b>ABNORMAL</b>	NORMAL	NORMAL

## WEAR

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

PQ		ASTM D8184		<b>19</b>	11	13
Iron	ppm	ASTM D5185m	>500	<b>29</b>	17	53
Chromium	ppm	ASTM D5185m	>10	<b>&lt;1</b>	0	<1
Nickel	ppm	ASTM D5185m	>10	<b>&lt;1</b>	0	<1
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1
Silver	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1
Aluminum	ppm	ASTM D5185m	>25	<b>▲ 28</b>	8	2
Lead	ppm	ASTM D5185m	>25	<b>15</b>	10	12
Copper	ppm	ASTM D5185m	>100	<b>56</b>	33	77
Tin	ppm	ASTM D5185m	>10	<b>4</b>	3	6
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

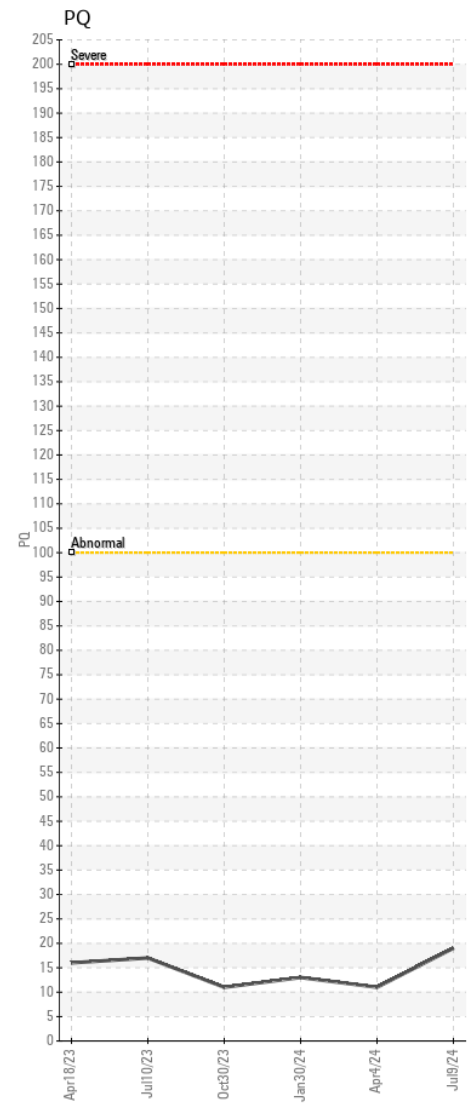
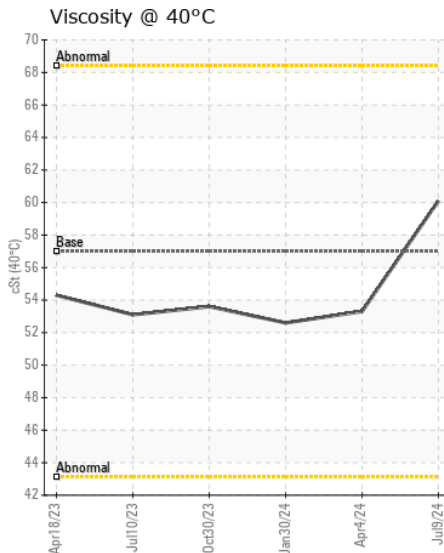
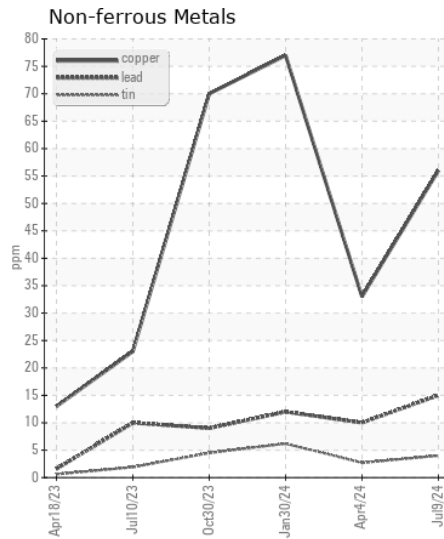
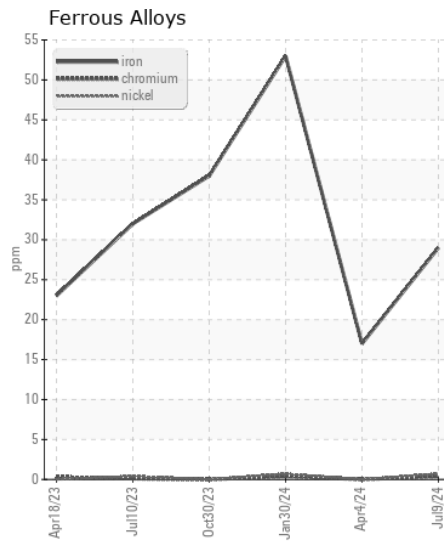
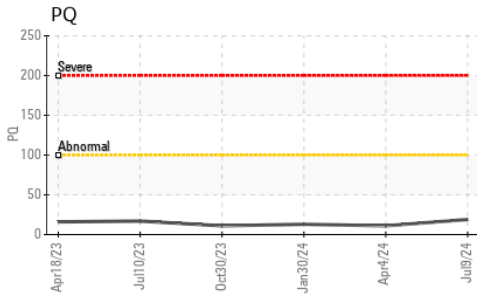
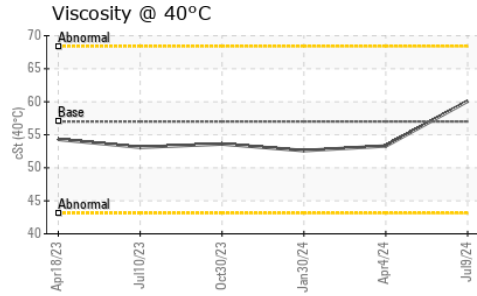
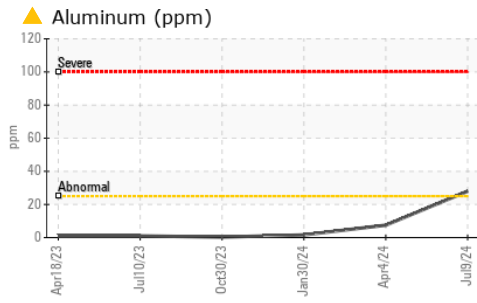
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>75	<b>11</b>	5	6
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	0	4
Water		WC Method	>.2	<b>NEG</b>	NEG	NEG
Silt	scalar	*Visual	NONE	<b>LIGHT</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>0</b>	3	6
Boron	ppm	ASTM D5185m	6	<b>3</b>	0	3
Barium	ppm	ASTM D5185m	0	<b>3</b>	1	3
Molybdenum	ppm	ASTM D5185m	0	<b>&lt;1</b>	0	<1
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	5
Magnesium	ppm	ASTM D5185m	145	<b>92</b>	100	100
Calcium	ppm	ASTM D5185m	3570	<b>3464</b>	3607	3398
Phosphorus	ppm	ASTM D5185m	1290	<b>1127</b>	1028	1007
Zinc	ppm	ASTM D5185m	1640	<b>1222</b>	1265	1226
Sulfur	ppm	ASTM D5185m		<b>4963</b>	3481	3586
Visc @ 40°C	cSt	ASTM D445	57.0	<b>60.1</b>	53.3	52.6



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WE0007872  
**Lab Number** : 06234074  
**Unique Number** : 11122908  
**Test Package** : CONST ( Additional Tests: PQ )

**Received** : 11 Jul 2024  
**Tested** : 12 Jul 2024  
**Diagnosed** : 14 Jul 2024 - Don Baldrige

**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)