



# OIL ANALYSIS REPORT

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

Area  
**[127287]**

Machine Id  
**JOHN DEERE 460P 1DW460PATPFB06235**

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>WE0007789</b>	WE0006307	WE0005031
Sample Date		Client Info		<b>19 Jun 2024</b>	06 Jan 2024	01 Sep 2023
Machine Age	hrs	Client Info		<b>2097</b>	1430	927
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	N/A
Filter Changed		Client Info		<b>Changed</b>	N/A	N/A
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

## WEAR

All component wear rates are normal.

PQ		ASTM D8184		<b>22</b>	19	12
Iron	ppm	ASTM D5185m	>500	<b>48</b>	25	23
Chromium	ppm	ASTM D5185m	>10	<b>&lt;1</b>	0	0
Nickel	ppm	ASTM D5185m	>10	<b>&lt;1</b>	0	0
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1
Silver	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Aluminum	ppm	ASTM D5185m	>25	<b>4</b>	<1	<1
Lead	ppm	ASTM D5185m	>25	<b>13</b>	3	2
Copper	ppm	ASTM D5185m	>100	<b>39</b>	15	15
Tin	ppm	ASTM D5185m	>10	<b>4</b>	2	1
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

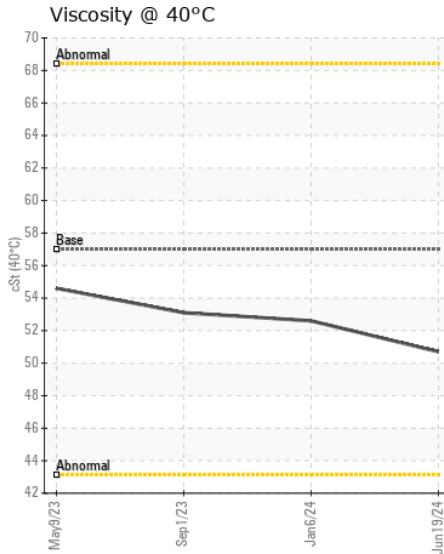
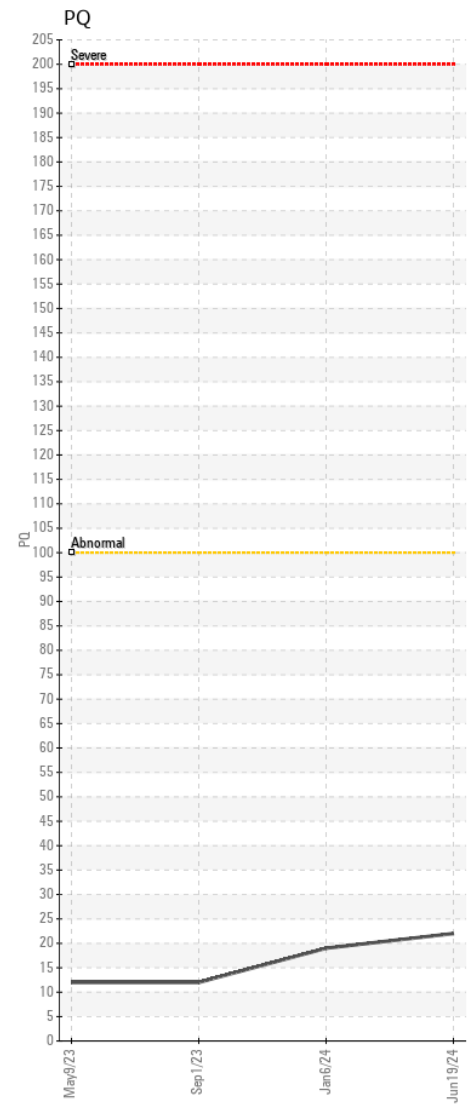
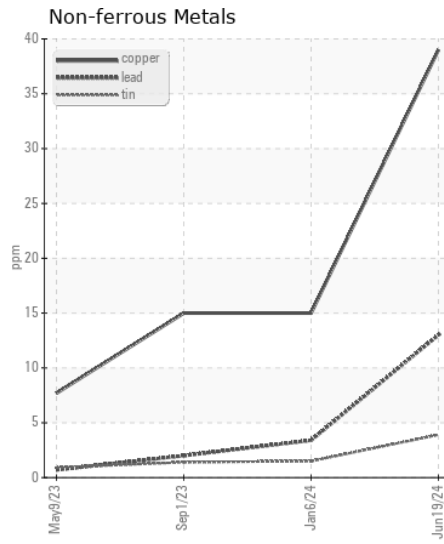
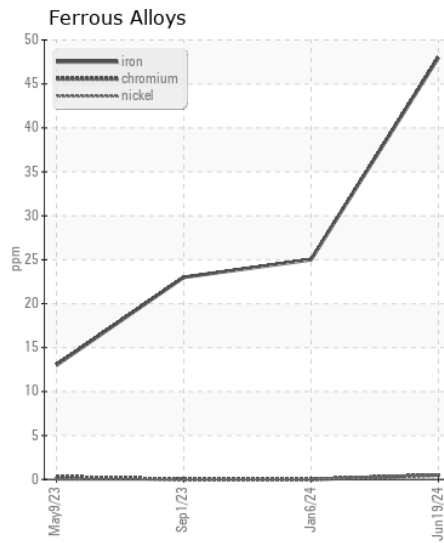
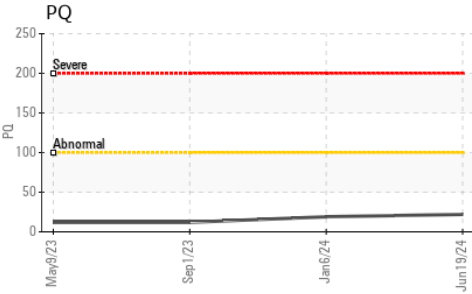
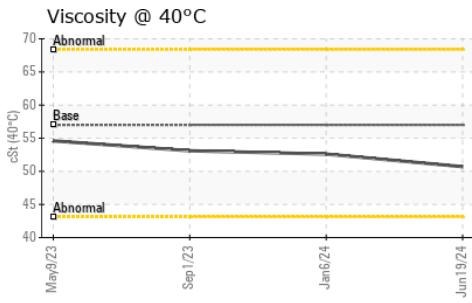
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>75	<b>11</b>	2	4
Potassium	ppm	ASTM D5185m	>20	<b>3</b>	0	0
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	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>2</b>	3	4
Boron	ppm	ASTM D5185m	6	<b>2</b>	2	0
Barium	ppm	ASTM D5185m	0	<b>6</b>	0	0
Molybdenum	ppm	ASTM D5185m	0	<b>&lt;1</b>	0	<1
Manganese	ppm	ASTM D5185m		<b>3</b>	3	2
Magnesium	ppm	ASTM D5185m	145	<b>101</b>	95	106
Calcium	ppm	ASTM D5185m	3570	<b>3705</b>	3337	3565
Phosphorus	ppm	ASTM D5185m	1290	<b>1088</b>	952	1026
Zinc	ppm	ASTM D5185m	1640	<b>1299</b>	1188	1257
Sulfur	ppm	ASTM D5185m		<b>3939</b>	3288	4255
Visc @ 40°C	cSt	ASTM D445	57.0	<b>50.7</b>	52.6	53.1



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513

**Sample No.** : WE0007789

**Lab Number** : 06218503

**Unique Number** : 11096700

**Test Package** : CONST ( Additional Tests: PQ )

**Received** : 24 Jun 2024

**Tested** : 25 Jun 2024

**Diagnosed** : 25 Jun 2024 - Wes Davis

**WARRIOR TRACTOR AND EQUIPMENT - NORTHPORT**

P.O. BOX 412

NORTHPORT, AL

US 35476

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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)