



# OIL ANALYSIS REPORT

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

Machine Id  
**JOHN DEERE 844P 1DW844PATPLX07402**  
 Component  
**Rear Differential**  
 Fluid  
**JOHN DEERE HY-GARD HYD/TRANS (--- QTS)**

## RECOMMENDATION

Oil and filter change at the time of sampling has been noted. 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>WE0007889</b>	WE0006937	WE0006254
Sample Date		Client Info		<b>10 Jul 2024</b>	25 Apr 2024	27 Jan 2024
Machine Age	hrs	Client Info		<b>1959</b>	1489	1022
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>	Not Changd	N/A
Filter Changed		Client Info		<b>Changed</b>	Not Changd	Changed
Sample Status				<b>ABNORMAL</b>	ABNORMAL	NORMAL

## WEAR

Bearing and/or bushing wear is indicated.

PQ	UOM	Method	Limit/Abn	Current	History1	History2
PQ		ASTM D8184		<b>64</b>	86	76
Iron	ppm	ASTM D5185m	>500	<b>135</b>	118	80
Chromium	ppm	ASTM D5185m	>10	<b>1</b>	1	<1
Nickel	ppm	ASTM D5185m	>10	<b>4</b>	4	2
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	0
Silver	ppm	ASTM D5185m		<b>0</b>	<1	0
Aluminum	ppm	ASTM D5185m	>25	<b>2</b>	2	1
Lead	ppm	ASTM D5185m	>25	<b>6</b>	5	1
Copper	ppm	ASTM D5185m	>100	<b>▲ 164</b>	▲ 114	44
Tin	ppm	ASTM D5185m	>10	<b>5</b>	5	2
Vanadium	ppm	ASTM D5185m		<b>0</b>	<1	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

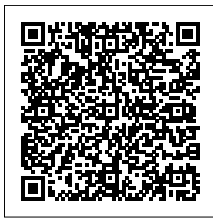
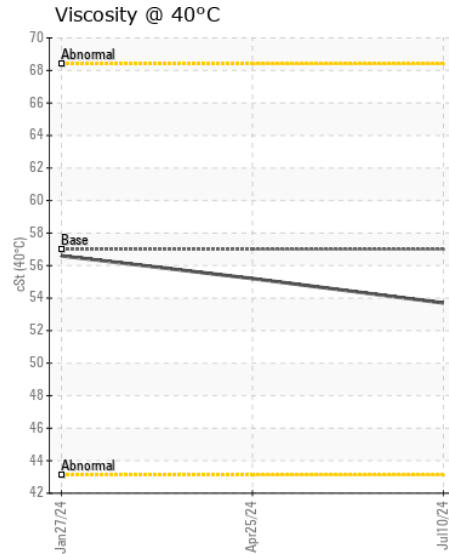
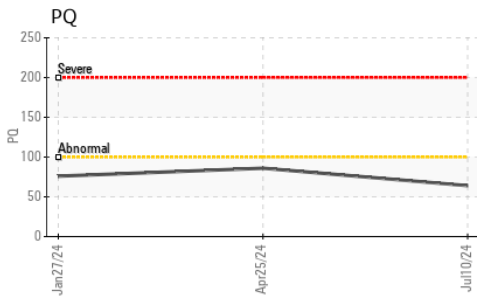
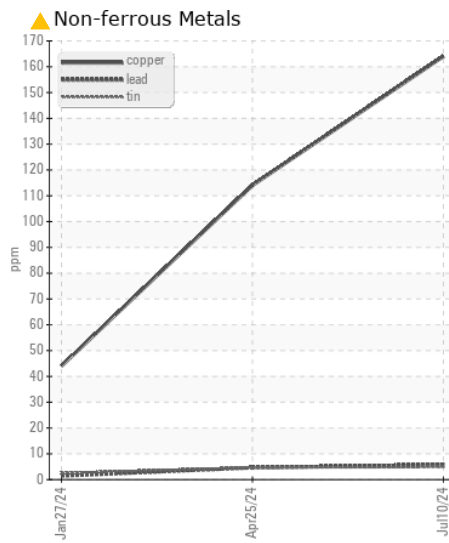
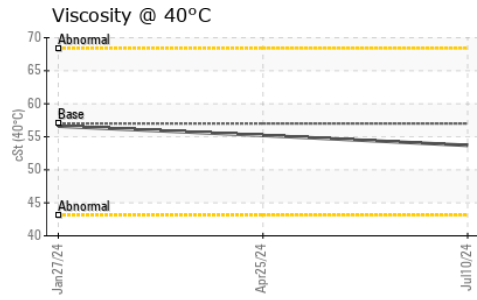
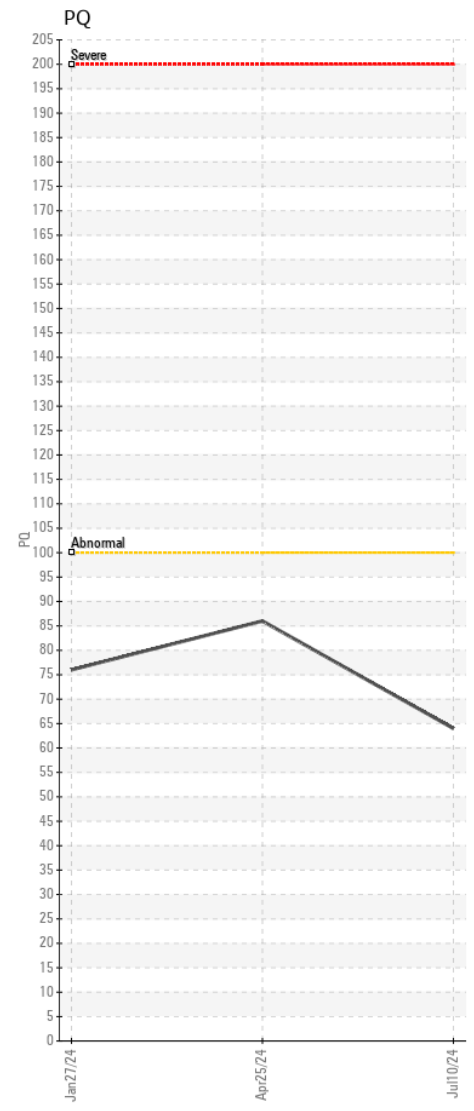
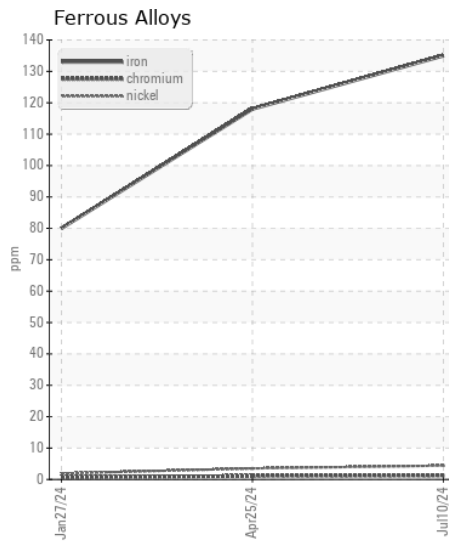
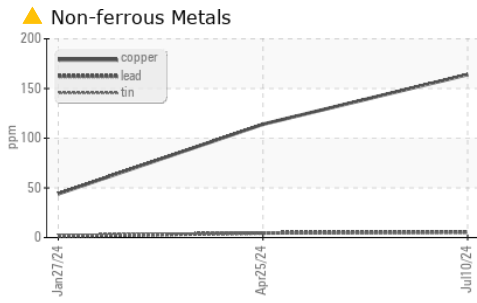
There is no indication of any contamination in the oil.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Silicon	ppm	ASTM D5185m	>75	<b>10</b>	12	10
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	4	<1
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.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sodium	ppm	ASTM D5185m		<b>4</b>	4	5
Boron	ppm	ASTM D5185m	6	<b>32</b>	33	26
Barium	ppm	ASTM D5185m	0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	0	<b>&lt;1</b>	<1	0
Manganese	ppm	ASTM D5185m		<b>16</b>	16	15
Magnesium	ppm	ASTM D5185m	145	<b>75</b>	82	78
Calcium	ppm	ASTM D5185m	3570	<b>3436</b>	3808	3321
Phosphorus	ppm	ASTM D5185m	1290	<b>1151</b>	1317	1041
Zinc	ppm	ASTM D5185m	1640	<b>1334</b>	1429	1318
Sulfur	ppm	ASTM D5185m		<b>4124</b>	4019	3387
Visc @ 40°C	cSt	ASTM D445	57.0	<b>53.7</b>	55.2	56.6



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WE0007889      **Received** : 15 Jul 2024  
**Lab Number** : 06236360      **Tested** : 16 Jul 2024  
**Unique Number** : 11125194      **Diagnosed** : 16 Jul 2024 - Sean Felton  
**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:

Certificate L2367  
 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)