



# OIL ANALYSIS REPORT

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

Area  
**[127661]**

Machine Id  
**JOHN DEERE 844P 1DW844PATPLX07402**

Component  
**Diesel Engine**

Fluid  
**JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (--- QTS)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WE0007887</b>	WE0006783	WE0006251
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>	Changed	Changed
Filter Changed		Client Info		<b>Changed</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	ABNORMAL	ABNORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>51	<b>12</b>	17	32
Chromium	ppm	ASTM D5185m	>11	<b>0</b>	<1	<1
Nickel	ppm	ASTM D5185m	>5	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m		<b>0</b>	<1	0
Silver	ppm	ASTM D5185m	>3	<b>0</b>	<1	0
Aluminum	ppm	ASTM D5185m	>31	<b>4</b>	6	5
Lead	ppm	ASTM D5185m	>26	<b>4</b>	8	10
Copper	ppm	ASTM D5185m	>26	<b>17</b>	▲ 48	▲ 180
Tin	ppm	ASTM D5185m	>4	<b>1</b>	▲ 5	▲ 7
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

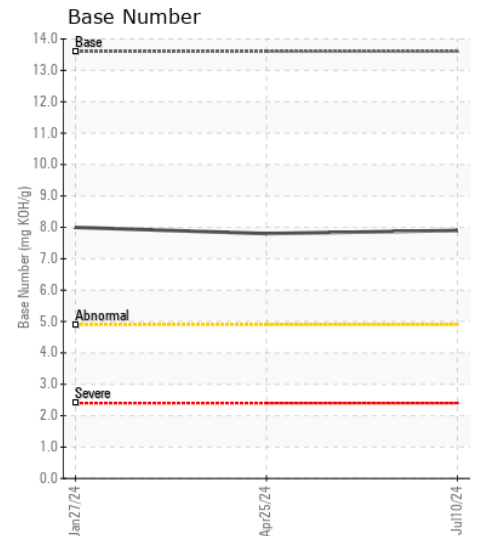
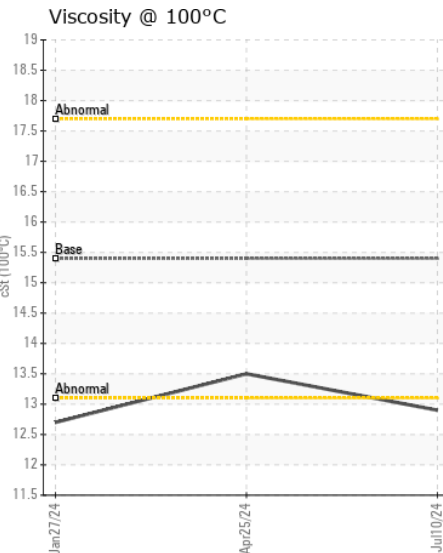
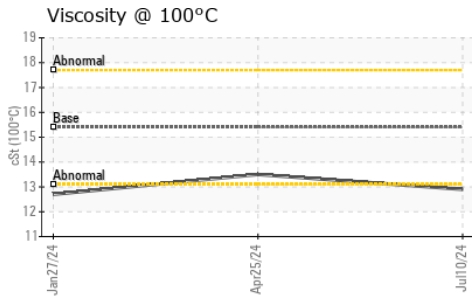
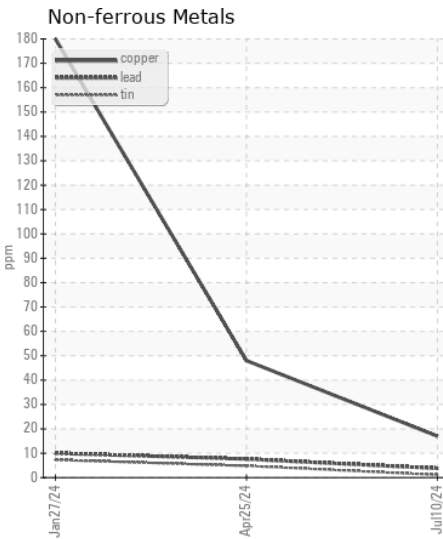
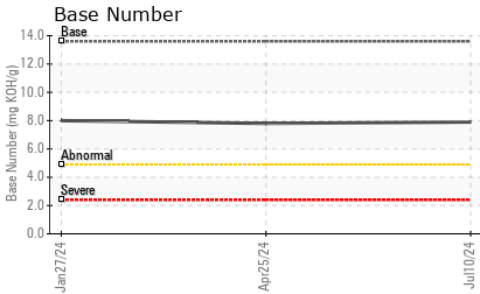
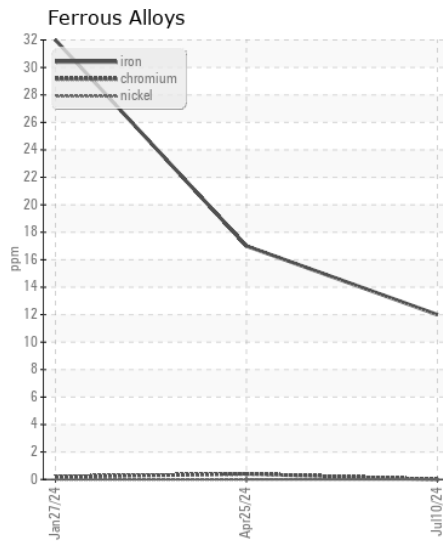
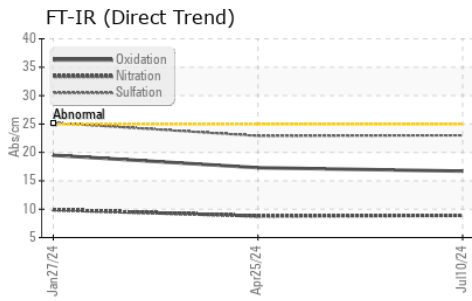
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>22	<b>9</b>	9	9
Potassium	ppm	ASTM D5185m	>20	<b>1</b>	4	2
Fuel	%	ASTM D3524	>2.1	<b>&lt;1.0</b>	<1.0	<1.0
Water		WC Method	>0.21	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844	>3	<b>0.4</b>	0.4	0.6
Nitration	Abs/cm	*ASTM D7624	>20	<b>8.9</b>	8.8	9.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>23.0</b>	22.9	25.2
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	>0.21	<b>NEG</b>	NEG	NEG

## FLUID CONDITION

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m	>31	<b>6</b>	3	7
Boron	ppm	ASTM D5185m		<b>159</b>	200	130
Barium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>252</b>	283	256
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	4
Magnesium	ppm	ASTM D5185m		<b>803</b>	873	813
Calcium	ppm	ASTM D5185m		<b>1411</b>	1464	1351
Phosphorus	ppm	ASTM D5185m		<b>837</b>	951	860
Zinc	ppm	ASTM D5185m		<b>956</b>	1078	1044
Sulfur	ppm	ASTM D5185m		<b>3251</b>	3132	2769
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>16.7</b>	17.3	19.5
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	<b>7.9</b>	7.8	8.0
Visc @ 100°C	cSt	ASTM D445	15.4	<b>12.9</b>	13.5	12.7



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WE0007887 **Received** : 15 Jul 2024  
**Lab Number** : 06235665 **Tested** : 16 Jul 2024  
**Unique Number** : 11124499 **Diagnosed** : 16 Jul 2024 - Don Baldridge  
**Test Package** : CONST ( Additional Tests: FuelDilution, TBN )

**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)