



# OIL ANALYSIS REPORT

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

Machine Id  
**JOHN DEERE 844L 1DW844LXVML712581**  
 Component  
**Diesel Engine**  
 Fluid  
**JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (--- 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>WE0007784</b>	WE06142843	WE0006325
Sample Date		Client Info		<b>19 Jun 2024</b>	04 Apr 2024	23 Jan 2024
Machine Age	hrs	Client Info		<b>6171</b>	5525	500
Oil Age	hrs	Client Info		<b>0</b>	5525	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>	N/A	Changed
Sample Status				<b>NORMAL</b>	SEVERE	NORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>51	<b>4</b>	28	10
Chromium	ppm	ASTM D5185m	>11	<b>0</b>	1	<1
Nickel	ppm	ASTM D5185m	>5	<b>0</b>	4	2
Titanium	ppm	ASTM D5185m		<b>0</b>	<1	<1
Silver	ppm	ASTM D5185m	>3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>31	<b>3</b>	8	4
Lead	ppm	ASTM D5185m	>26	<b>0</b>	▲ 29	3
Copper	ppm	ASTM D5185m	>26	<b>1</b>	10	4
Tin	ppm	ASTM D5185m	>4	<b>0</b>	3	2
Vanadium	ppm	ASTM D5185m		<b>0</b>	<1	<1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

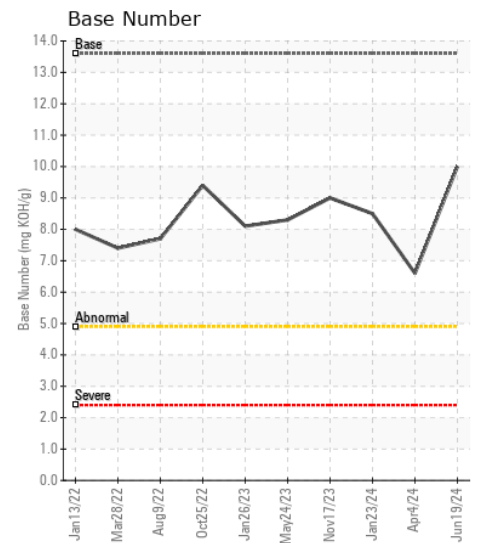
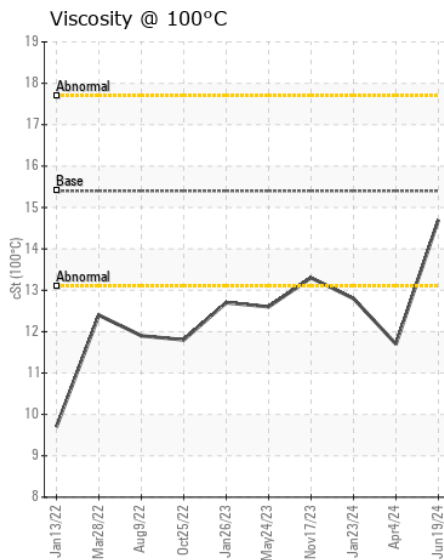
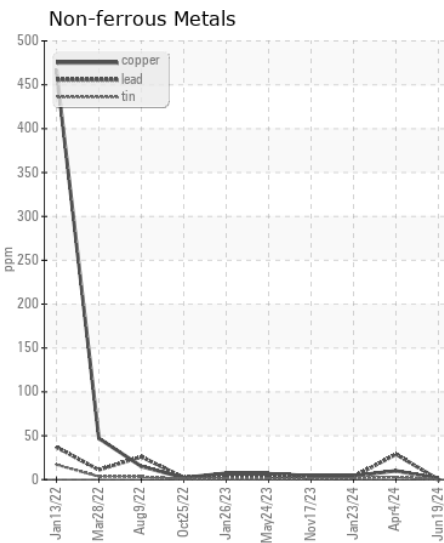
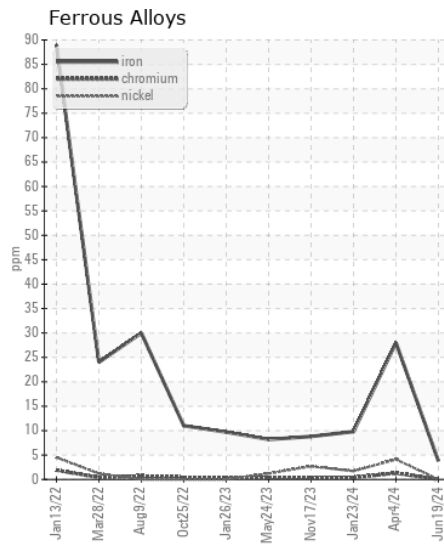
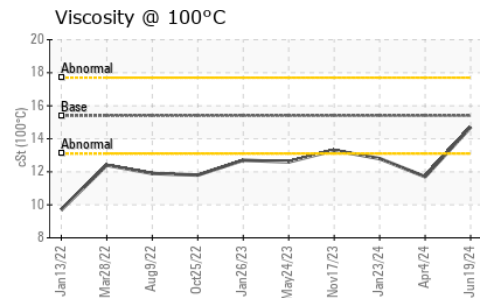
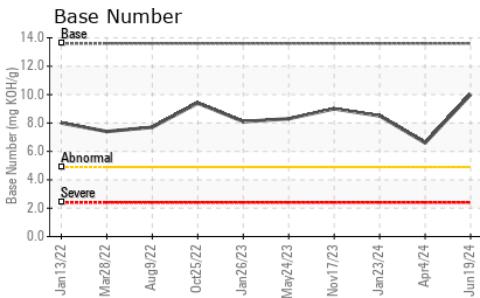
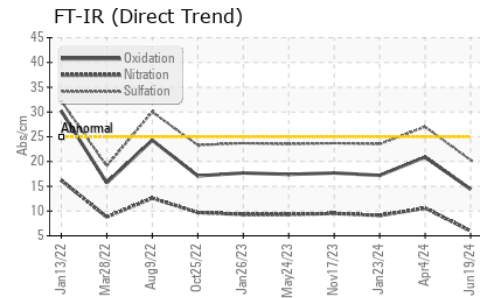
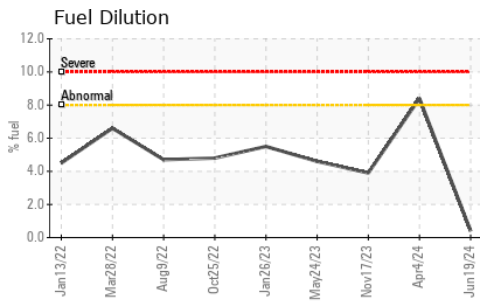
Fuel content negligible. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>22	<b>9</b>	11	7
Potassium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	4	2
Fuel	%	ASTM D3524	>8.0	<b>0.4</b>	▲ 8.4	<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>0.1</b>	0.8	0.5
Nitration	Abs/cm	*ASTM D7624	>20	<b>6.0</b>	10.6	9.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>20.3</b>	27.0	23.5
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>&lt;1</b>	8	5
Boron	ppm	ASTM D5185m		<b>236</b>	16	175
Barium	ppm	ASTM D5185m		<b>0</b>	2	0
Molybdenum	ppm	ASTM D5185m		<b>232</b>	237	237
Manganese	ppm	ASTM D5185m		<b>0</b>	1	<1
Magnesium	ppm	ASTM D5185m		<b>816</b>	772	760
Calcium	ppm	ASTM D5185m		<b>1432</b>	1300	1331
Phosphorus	ppm	ASTM D5185m		<b>933</b>	759	835
Zinc	ppm	ASTM D5185m		<b>1129</b>	930	989
Sulfur	ppm	ASTM D5185m		<b>3665</b>	2887	2624
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>14.4</b>	20.9	17.2
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	<b>10.0</b>	6.6	8.5
Visc @ 100°C	cSt	ASTM D445	15.4	<b>14.7</b>	▲ 11.7	12.8



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WE0007784 **Received** : 24 Jun 2024  
**Lab Number** : 06218013 **Tested** : 26 Jun 2024  
**Unique Number** : 11096210 **Diagnosed** : 26 Jun 2024 - Wes Davis  
**Test Package** : CONST ( Additional Tests: PercentFuel, 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)