



# OIL ANALYSIS REPORT

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



Area  
**Store 3 - Norton**  
Machine Id  
**JOHN DEERE 748L2 1DW748LBJKF696124**  
Component  
**Diesel Engine**  
Fluid  
**JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (8 GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>LEC0047382</b>	LEC0025576	LEC0021813
Sample Date		Client Info		<b>11 Apr 2024</b>	30 Nov 2021	22 Apr 2021
Machine Age	hrs	Client Info		<b>6503</b>	3246	2275
Oil Age	hrs	Client Info		<b>500</b>	971	717
Filter Age	hrs	Client Info		<b>500</b>	971	717
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>Changed</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>51	<b>16</b>	32	26
Chromium	ppm	ASTM D5185m	>11	<b>&lt;1</b>	2	1
Nickel	ppm	ASTM D5185m	>5	<b>&lt;1</b>	0	1
Titanium	ppm	ASTM D5185m		<b>1</b>	<1	3
Silver	ppm	ASTM D5185m	>3	<b>&lt;1</b>	0	0
Aluminum	ppm	ASTM D5185m	>31	<b>1</b>	5	7
Lead	ppm	ASTM D5185m	>26	<b>0</b>	<1	1
Copper	ppm	ASTM D5185m	>26	<b>&lt;1</b>	7	10
Tin	ppm	ASTM D5185m	>4	<b>&lt;1</b>	1	0
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

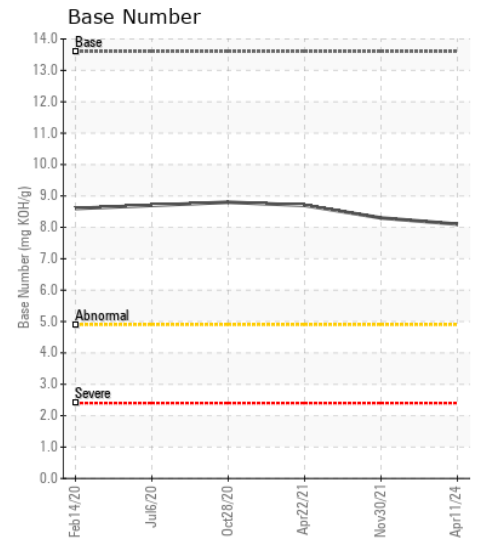
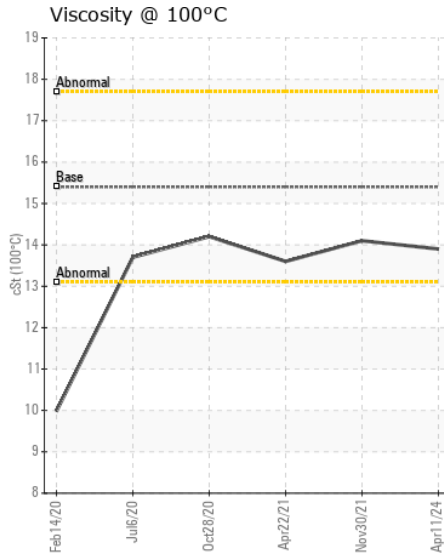
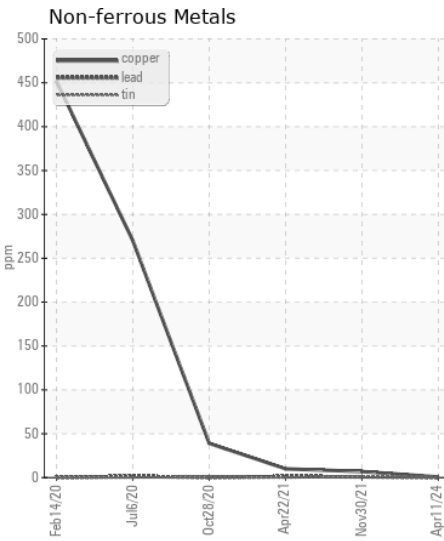
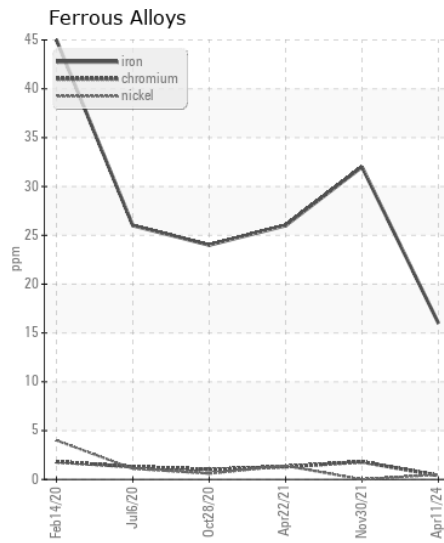
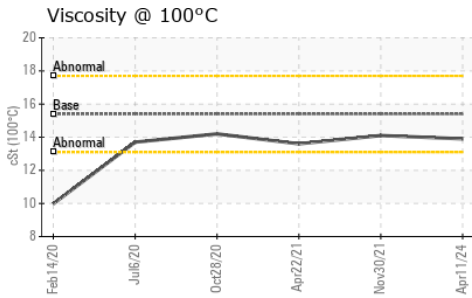
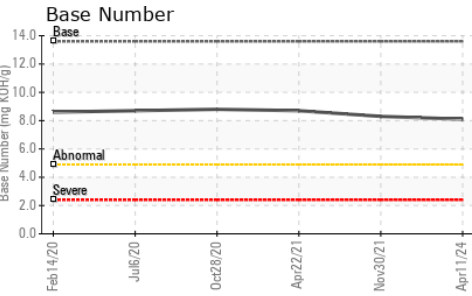
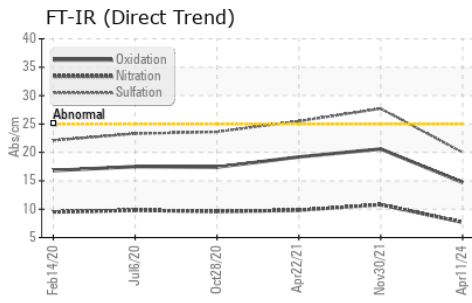
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>120	<b>10</b>	13	9
Potassium	ppm	ASTM D5185m	>20	<b>1</b>	6	0
Fuel		WC Method	>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>	1	0.6
Nitration	Abs/cm	*ASTM D7624	>20	<b>7.7</b>	10.8	9.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>20.0</b>	27.7	25.5
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>3</b>	4	4
Boron	ppm	ASTM D5185m		<b>17</b>	29	115
Barium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>50</b>	270	244
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	1	<1
Magnesium	ppm	ASTM D5185m		<b>546</b>	865	912
Calcium	ppm	ASTM D5185m		<b>1820</b>	1468	1502
Phosphorus	ppm	ASTM D5185m		<b>1215</b>	852	857
Zinc	ppm	ASTM D5185m		<b>1417</b>	1049	1060
Sulfur	ppm	ASTM D5185m		<b>4350</b>	2512	2438
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>14.7</b>	20.6	19.2
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	<b>8.1</b>	8.3	8.7
Visc @ 100°C	cSt	ASTM D445	15.4	<b>13.9</b>	14.1	13.6



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : LEC0047382 **Received** : 15 Apr 2024  
**Lab Number** : 06149259 **Tested** : 16 Apr 2024  
**Unique Number** : 10979337 **Diagnosed** : 17 Apr 2024 - Don Baldrige  
**Test Package** : CONST ( Additional Tests: TBN )

**FISHER LOGGING**  
 HC 77 BOX 9D  
 BARTOW, WV  
 US 24920  
 Contact:

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)

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F: