



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

Machine Id  
**JOHN DEERE 344L L-6 (S/N 1LU344LXCZB065779)**  
 Component  
**Diesel Engine**  
 Fluid  
**JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (--- GAL)**

### RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>JR0196228</b>	JR0160814	---
Sample Date		Client Info		<b>01 Jul 2024</b>	03 May 2023	---
Machine Age	hrs	Client Info		<b>1135</b>	555	---
Oil Age	hrs	Client Info		<b>580</b>	555	---
Filter Age	hrs	Client Info		<b>580</b>	555	---
Oil Changed		Client Info		<b>Changed</b>	Changed	---
Filter Changed		Client Info		<b>Changed</b>	Changed	---
Sample Status				<b>NORMAL</b>	ABNORMAL	---

### WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>51	<b>23</b>	32	---
Chromium	ppm	ASTM D5185m	>11	<b>&lt;1</b>	<1	---
Nickel	ppm	ASTM D5185m	>5	<b>&lt;1</b>	<1	---
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	0	---
Silver	ppm	ASTM D5185m	>3	<b>&lt;1</b>	0	---
Aluminum	ppm	ASTM D5185m	>31	<b>6</b>	6	---
Lead	ppm	ASTM D5185m	>26	<b>19</b>	5	---
Copper	ppm	ASTM D5185m	>26	<b>21</b>	▲ 130	---
Tin	ppm	ASTM D5185m	>4	<b>2</b>	3	---
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	---
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---

### CONTAMINATION

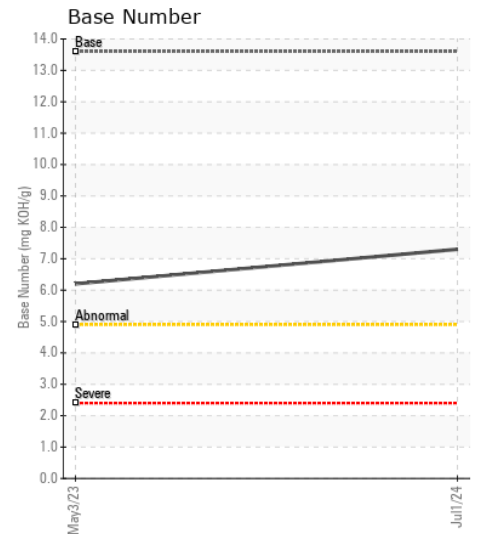
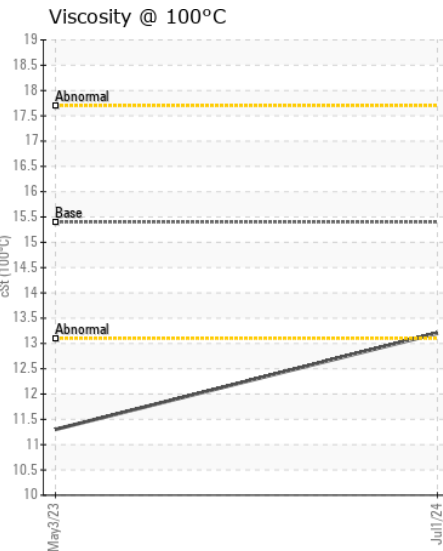
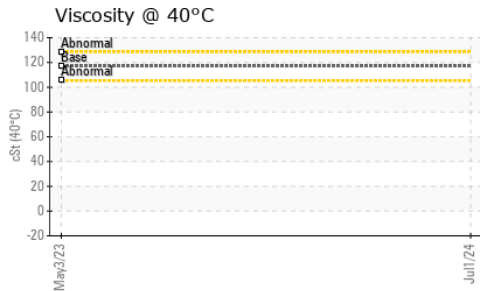
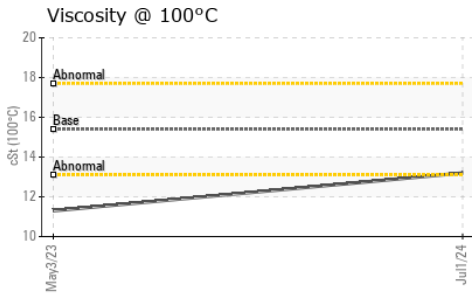
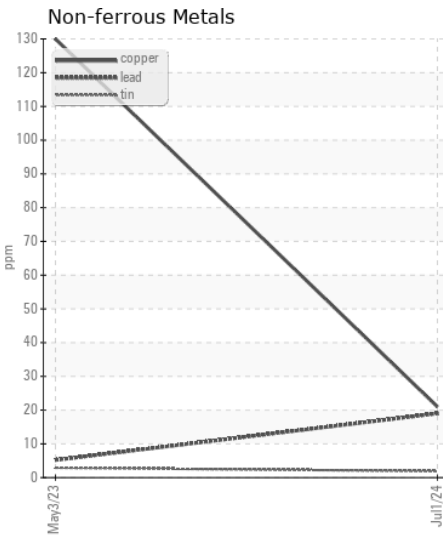
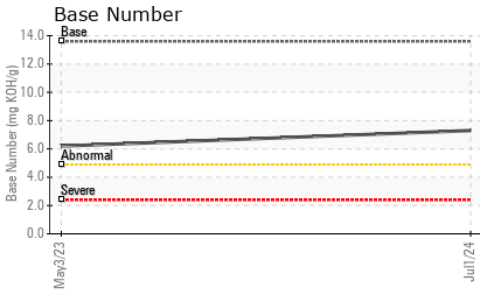
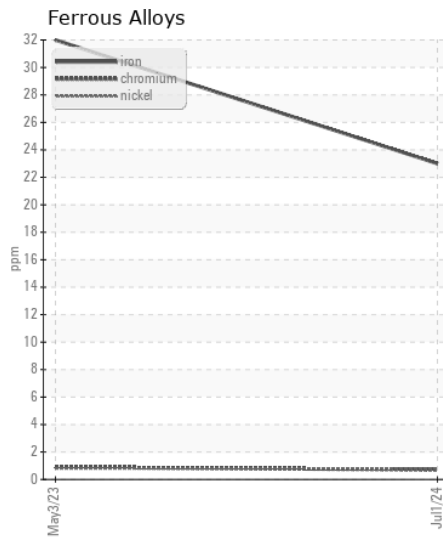
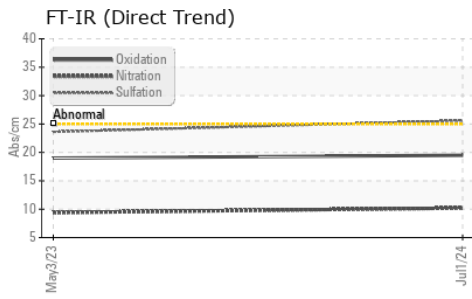
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>22	<b>7</b>	10	---
Potassium	ppm	ASTM D5185m	>20	<b>3</b>	2	---
Fuel		WC Method	>2.1	<b>&lt;1.0</b>	1.0	---
Water		WC Method	>0.21	<b>NEG</b>	NEG	---
Glycol		WC Method		<b>NEG</b>	NEG	---
Soot %	%	*ASTM D7844	>3	<b>0.6</b>	0.5	---
Nitration	Abs/cm	*ASTM D7624	>20	<b>10.2</b>	9.4	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>25.6</b>	23.6	---
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	---
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	---
Emulsified Water	scalar	*Visual	>0.21	<b>NEG</b>	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>2</b>	6	---
Boron	ppm	ASTM D5185m		<b>97</b>	131	---
Barium	ppm	ASTM D5185m		<b>2</b>	<1	---
Molybdenum	ppm	ASTM D5185m		<b>272</b>	263	---
Manganese	ppm	ASTM D5185m		<b>1</b>	4	---
Magnesium	ppm	ASTM D5185m		<b>810</b>	859	---
Calcium	ppm	ASTM D5185m		<b>1368</b>	1421	---
Phosphorus	ppm	ASTM D5185m		<b>747</b>	852	---
Zinc	ppm	ASTM D5185m		<b>970</b>	1063	---
Sulfur	ppm	ASTM D5185m		<b>2582</b>	3698	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>19.5</b>	19.0	---
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	<b>7.3</b>	6.2	---
Visc @ 100°C	cSt	ASTM D445	15.4	<b>13.2</b>	● 11.3	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0196228 **Received** : 02 Jul 2024  
**Lab Number** : 06225829 **Tested** : 03 Jul 2024  
**Unique Number** : 11109322 **Diagnosed** : 03 Jul 2024 - Jonathan Hester  
**Test Package** : CONST ( Additional Tests: KV40, TBN )

**DIVERSIFIED BIO-MASS**  
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 WILMINGTON, NC  
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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)