



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

Area

[W51688]

Machine Id

JOHN DEERE 700L 1T0700LXENF429594

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>JR0212138</b>	JR0180988	JR0148009
Sample Date		Client Info		<b>10 May 2024</b>	15 Nov 2023	31 Mar 2023
Machine Age	hrs	Client Info		<b>1479</b>	948	441
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>	NORMAL	ABNORMAL

### WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>51	<b>16</b>	13	20
Chromium	ppm	ASTM D5185m	>11	<b>1</b>	<1	<1
Nickel	ppm	ASTM D5185m	>5	<b>4</b>	3	2
Titanium	ppm	ASTM D5185m		<b>2</b>	<1	<1
Silver	ppm	ASTM D5185m	>3	<b>&lt;1</b>	0	0
Aluminum	ppm	ASTM D5185m	>31	<b>6</b>	2	2
Lead	ppm	ASTM D5185m	>26	<b>&lt;1</b>	1	<1
Copper	ppm	ASTM D5185m	>26	<b>7</b>	55	▲ 456
Tin	ppm	ASTM D5185m	>4	<b>1</b>	<1	2
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

### CONTAMINATION

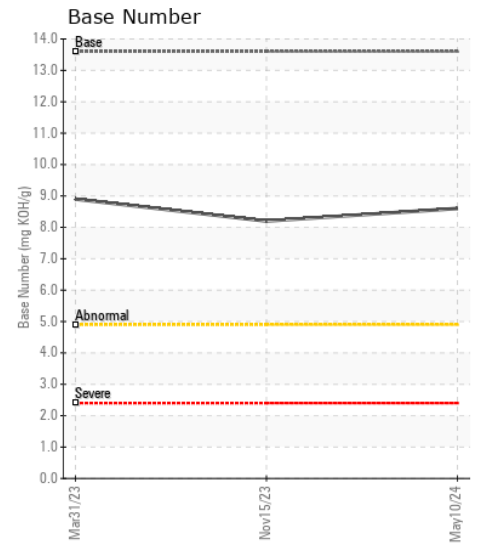
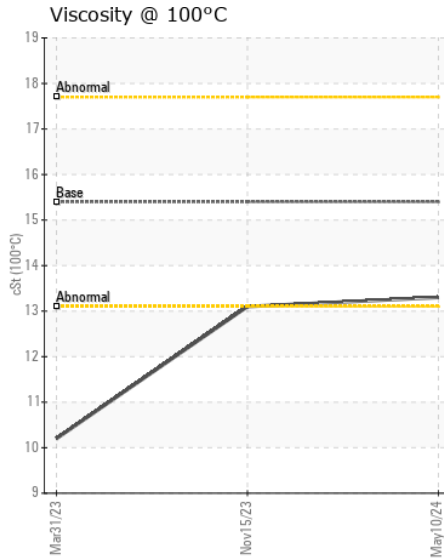
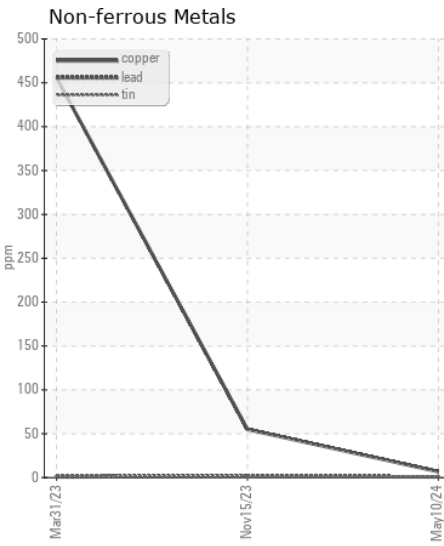
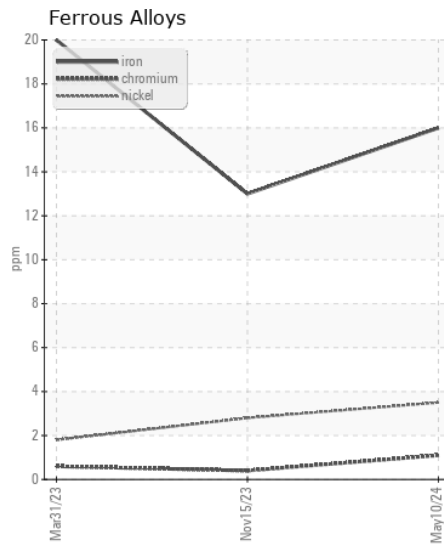
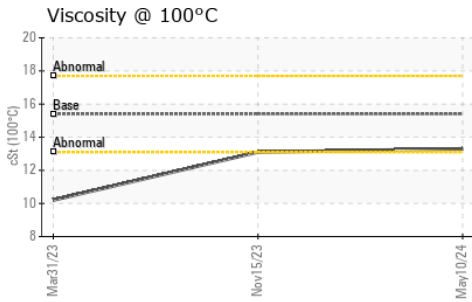
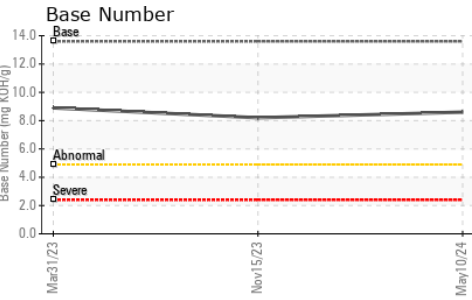
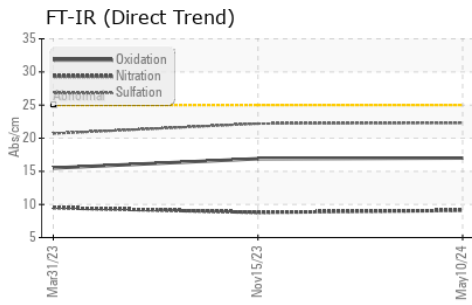
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>22	<b>9</b>	7	12
Potassium	ppm	ASTM D5185m	>20	<b>3</b>	0	2
Fuel		WC Method	>2.1	<b>&lt;1.0</b>	<1.0	0.4
Water		WC Method	>0.21	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844	>3	<b>0.3</b>	0.2	0.2
Nitration	Abs/cm	*ASTM D7624	>20	<b>9.1</b>	8.8	9.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>22.3</b>	22.2	20.7
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	<1
Boron	ppm	ASTM D5185m		<b>263</b>	215	266
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>264</b>	248	270
Manganese	ppm	ASTM D5185m		<b>1</b>	1	4
Magnesium	ppm	ASTM D5185m		<b>860</b>	822	797
Calcium	ppm	ASTM D5185m		<b>1443</b>	1451	1467
Phosphorus	ppm	ASTM D5185m		<b>992</b>	909	905
Zinc	ppm	ASTM D5185m		<b>1116</b>	1076	1067
Sulfur	ppm	ASTM D5185m		<b>3541</b>	2739	2984
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>17.0</b>	16.9	15.5
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	<b>8.6</b>	8.2	8.9
Visc @ 100°C	cSt	ASTM D445	15.4	<b>13.3</b>	13.1	● 10.2



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0212138 **Received** : 21 May 2024  
**Lab Number** : 06185976 **Tested** : 22 May 2024  
**Unique Number** : 11042728 **Diagnosed** : 22 May 2024 - Wes Davis  
**Test Package** : CONST ( Additional Tests: TBN )

**JRE - ASHLAND**  
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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)