



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

Machine Id  
**JOHN DEERE 700L 1T0700LXHPF448468**

Component  
**Diesel Engine**

Fluid  
**{not provided} (--- GAL)**

### RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>JR0209232</b>	JR0194530	---
Sample Date		Client Info		<b>14 Apr 2024</b>	21 Dec 2023	---
Machine Age	hrs	Client Info		<b>693</b>	693	---
Oil Age	hrs	Client Info		<b>693</b>	0	---
Filter Age	hrs	Client Info		<b>0</b>	0	---
Oil Changed		Client Info		<b>Changed</b>	N/A	---
Filter Changed		Client Info		<b>Changed</b>	N/A	---
Sample Status				<b>NORMAL</b>	ABNORMAL	---

### WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>51	<b>10</b>	41	---
Chromium	ppm	ASTM D5185m	>11	<b>&lt;1</b>	1	---
Nickel	ppm	ASTM D5185m	>5	<b>1</b>	2	---
Titanium	ppm	ASTM D5185m		<b>0</b>	0	---
Silver	ppm	ASTM D5185m	>3	<b>0</b>	0	---
Aluminum	ppm	ASTM D5185m	>31	<b>4</b>	6	---
Lead	ppm	ASTM D5185m	>26	<b>0</b>	5	---
Copper	ppm	ASTM D5185m	>26	<b>47</b>	▲ 371	---
Tin	ppm	ASTM D5185m	>4	<b>0</b>	1	---
Vanadium	ppm	ASTM D5185m		<b>0</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.

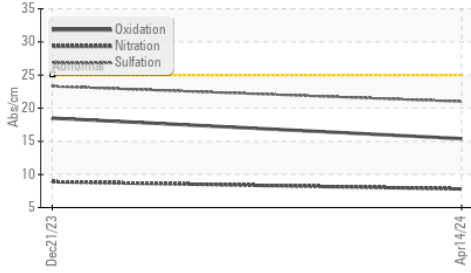
Silicon	ppm	ASTM D5185m	>22	<b>6</b>	13	---
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	<1	---
Fuel		WC Method	>2.1	<b>&lt;1.0</b>	0.4	---
Water		WC Method	>0.21	<b>NEG</b>	NEG	---
Glycol		WC Method		<b>NEG</b>	NEG	---
Soot %	%	*ASTM D7844	>3	<b>0.2</b>	0.4	---
Nitration	Abs/cm	*ASTM D7624	>20	<b>7.8</b>	8.9	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>21.0</b>	23.3	---
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

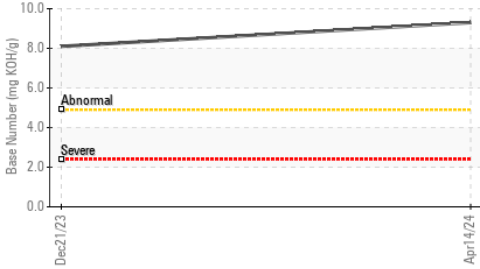
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m	>31	<b>1</b>	4	---
Boron	ppm	ASTM D5185m		<b>252</b>	171	---
Barium	ppm	ASTM D5185m		<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185m		<b>257</b>	235	---
Manganese	ppm	ASTM D5185m		<b>0</b>	3	---
Magnesium	ppm	ASTM D5185m		<b>793</b>	798	---
Calcium	ppm	ASTM D5185m		<b>1472</b>	1483	---
Phosphorus	ppm	ASTM D5185m		<b>988</b>	942	---
Zinc	ppm	ASTM D5185m		<b>1112</b>	1127	---
Sulfur	ppm	ASTM D5185m		<b>3083</b>	2812	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>15.4</b>	18.5	---
Base Number (BN)	mg KOH/g	ASTM D2896		<b>9.3</b>	8.1	---
Visc @ 100°C	cSt	ASTM D445		<b>13.4</b>	11.0	---

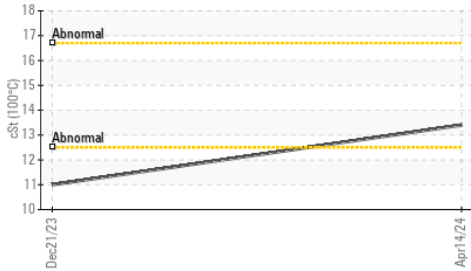
**FT-IR (Direct Trend)**



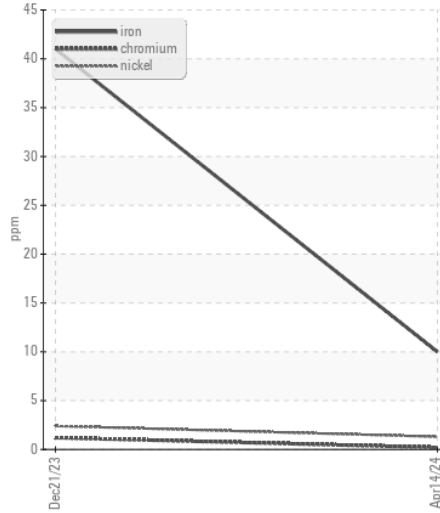
**Base Number**



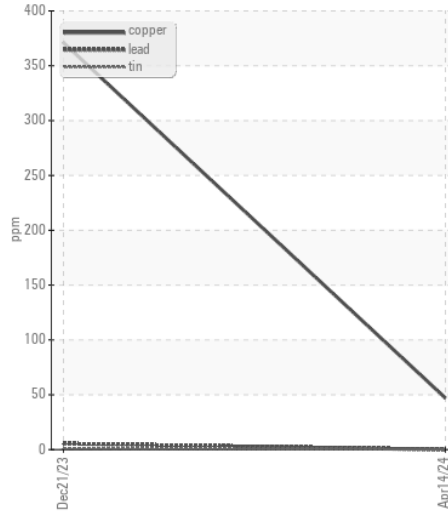
**Viscosity @ 100°C**



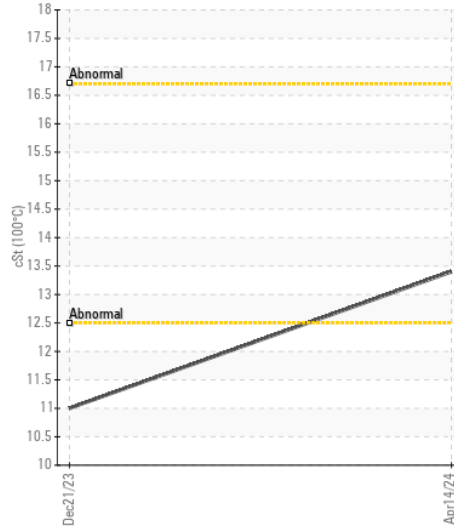
**Ferrous Alloys**



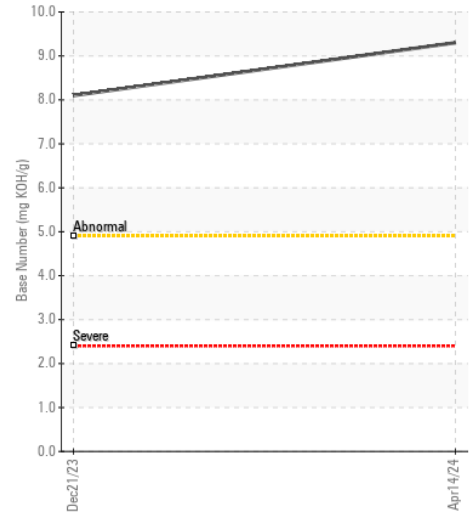
**Non-ferrous Metals**



**Viscosity @ 100°C**



**Base Number**



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0209232 **Received** : 17 Apr 2024  
**Lab Number** : 06151767 **Tested** : 18 Apr 2024  
**Unique Number** : 10981845 **Diagnosed** : 19 Apr 2024 - Sean Felton  
**Test Package** : CONST ( Additional Tests: TBN )

**JRE - GARNER**  
 4161 AUBURN CHURCH RD  
 GARNER, NC  
 US 27529

Contact: RALEIGH SHOP  
 sean.betts@jamesriverequipment.com; catherine.anastasio@wearcheck.com

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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