



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



Machine Id  
**JOHN DEERE 700J T0700JX116791**  
Component  
**Diesel Engine**  
Fluid  
**DIESEL ENGINE OIL SAE 40 (--- QTS)**

### RECOMMENDATION

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>JR0208770</b>	JR0103282	---
Sample Date		Client Info		<b>20 Mar 2024</b>	10 Nov 2021	---
Machine Age	hrs	Client Info		<b>5587</b>	5377	---
Oil Age	hrs	Client Info		<b>210</b>	0	---
Filter Age	hrs	Client Info		<b>0</b>	0	---
Oil Changed		Client Info		<b>Changed</b>	Changed	---
Filter Changed		Client Info		<b>Changed</b>	Changed	---
Sample Status				<b>NORMAL</b>	NORMAL	---

### WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>51	<b>21</b>	8	---
Chromium	ppm	ASTM D5185m	>11	<b>2</b>	<1	---
Nickel	ppm	ASTM D5185m	>5	<b>2</b>	<1	---
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	0	---
Silver	ppm	ASTM D5185m	>3	<b>0</b>	4	---
Aluminum	ppm	ASTM D5185m	>31	<b>7</b>	1	---
Lead	ppm	ASTM D5185m	>26	<b>6</b>	1	---
Copper	ppm	ASTM D5185m	>26	<b>2</b>	<1	---
Tin	ppm	ASTM D5185m	>4	<b>&lt;1</b>	<1	---
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	---
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---

### CONTAMINATION

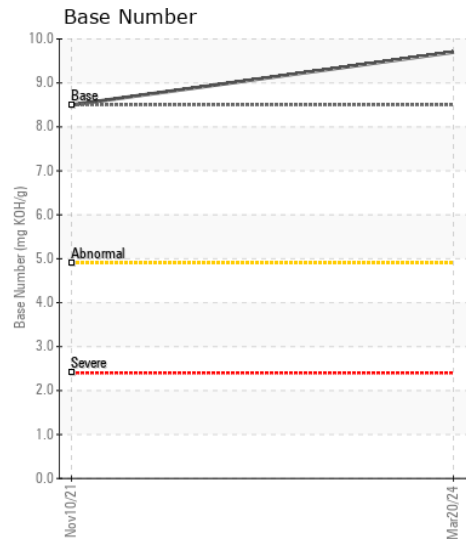
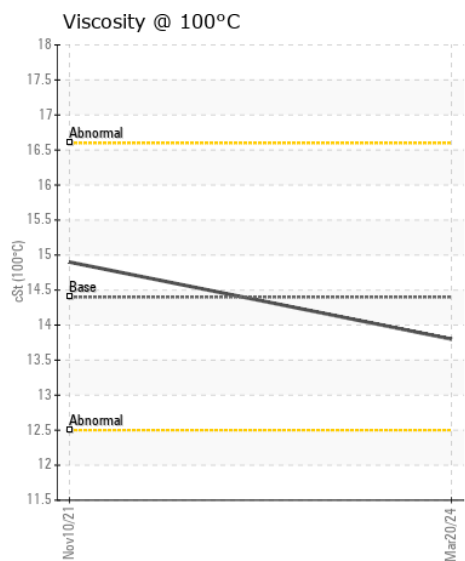
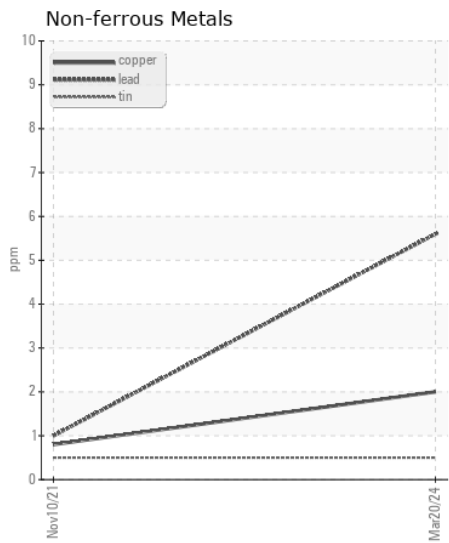
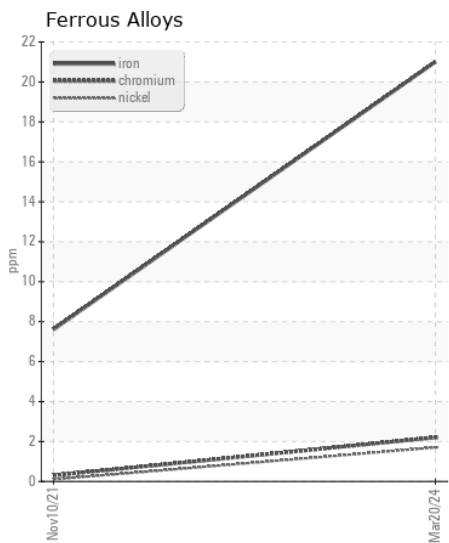
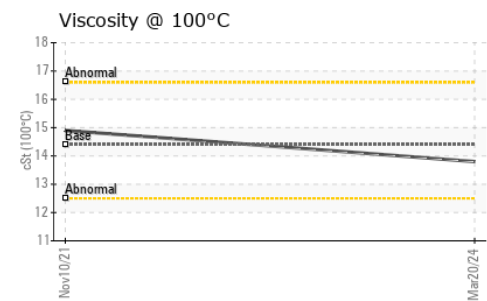
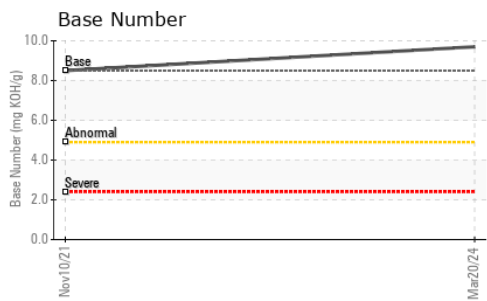
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>22	<b>13</b>	0	---
Potassium	ppm	ASTM D5185m	>20	<b>3</b>	6	---
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>0.1</b>	0.2	---
Nitration	Abs/cm	*ASTM D7624	>20	<b>7.0</b>	7.6	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>19.9</b>	21	---
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	>216	<b>0</b>	1	---
Boron	ppm	ASTM D5185m	250	<b>305</b>	234	---
Barium	ppm	ASTM D5185m	10	<b>2</b>	0	---
Molybdenum	ppm	ASTM D5185m	100	<b>249</b>	21	---
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	---
Magnesium	ppm	ASTM D5185m	450	<b>784</b>	120	---
Calcium	ppm	ASTM D5185m	3000	<b>1450</b>	2103	---
Phosphorus	ppm	ASTM D5185m	1150	<b>915</b>	935	---
Zinc	ppm	ASTM D5185m	1350	<b>1101</b>	1084	---
Sulfur	ppm	ASTM D5185m	4250	<b>3486</b>	3000	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>15.1</b>	16.6	---
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	<b>9.7</b>	8.5	---
Visc @ 100°C	cSt	ASTM D445	14.4	<b>13.8</b>	14.9	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0208770 **Received** : 21 Mar 2024  
**Lab Number** : 06124765 **Tested** : 22 Mar 2024  
**Unique Number** : 10938916 **Diagnosed** : 22 Mar 2024 - Wes Davis  
**Test Package** : CONST ( Additional Tests: TBN )

**JRE - GREENVILLE**  
 3604 HIGHWAY 264 E  
 GREENVILLE, NC  
 US 27834-5800

Contact: GREENVILLE SHOP  
 christopher.martin@jamesriverequipment.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)

T:  
F: