



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



Machine Id  
**JOHN DEERE 750K 1T0750KXCHF316440**

Component  
**Diesel Engine**

Fluid  
**DIESEL ENGINE OIL SAE 40 (--- GAL)**

### RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>JR0198876</b>	JR0190934	JR0181688
Sample Date		Client Info		<b>08 Jan 2024</b>	05 Dec 2023	22 Aug 2023
Machine Age	hrs	Client Info		<b>5141</b>	5141	4630
Oil Age	hrs	Client Info		<b>500</b>	511	1091
Filter Age	hrs	Client Info		<b>500</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	NORMAL

### WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>51	<b>19</b>	22	7
Chromium	ppm	ASTM D5185m	>11	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185m	>5	<b>0</b>	0	1
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Silver	ppm	ASTM D5185m	>3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>31	<b>4</b>	4	2
Lead	ppm	ASTM D5185m	>26	<b>0</b>	0	<1
Copper	ppm	ASTM D5185m	>26	<b>1</b>	9	<1
Tin	ppm	ASTM D5185m	>4	<b>&lt;1</b>	0	0
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

### CONTAMINATION

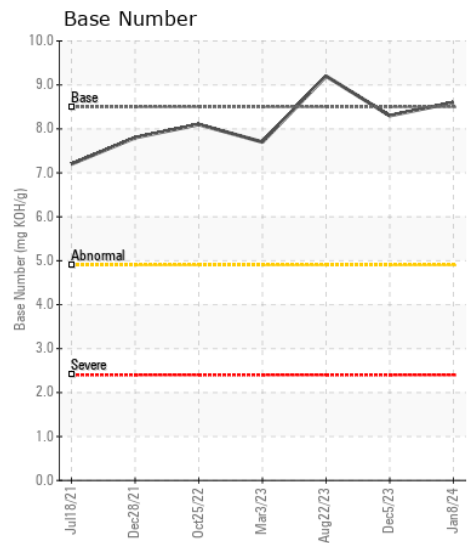
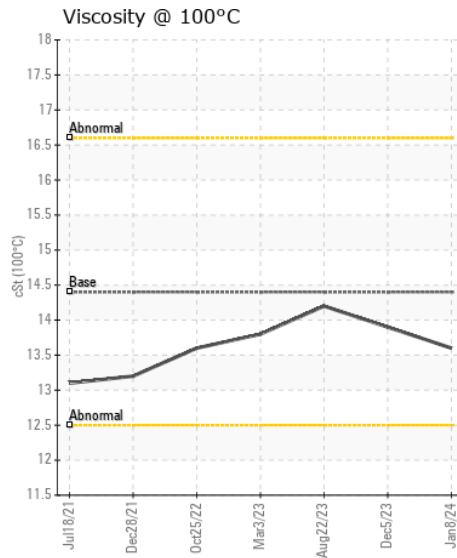
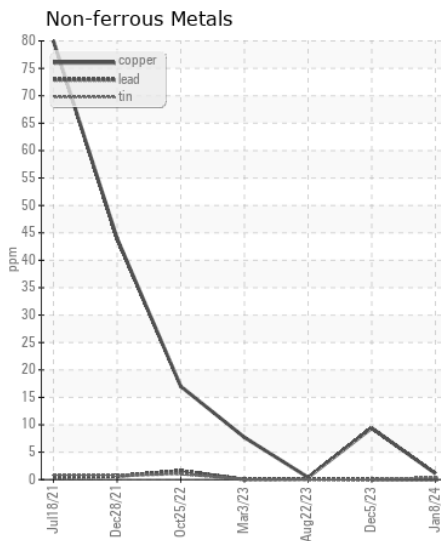
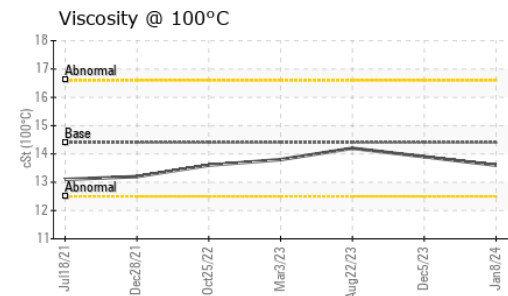
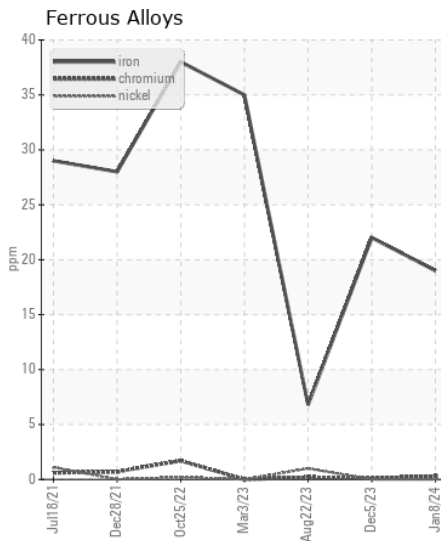
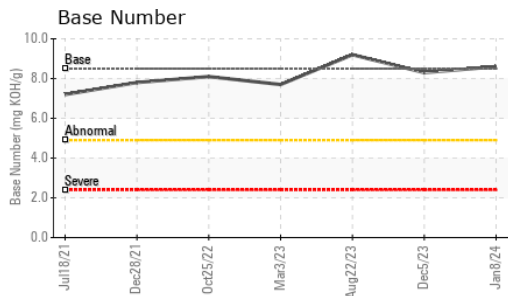
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>22	<b>8</b>	8	8
Potassium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	3	2
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>	0.4	0.1
Nitration	Abs/cm	*ASTM D7624	>20	<b>9.8</b>	9.7	5.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>22.8</b>	24.4	19.3
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	>216	<b>3</b>	2	<1
Boron	ppm	ASTM D5185m	250	<b>174</b>	155	309
Barium	ppm	ASTM D5185m	10	<b>&lt;1</b>	3	0
Molybdenum	ppm	ASTM D5185m	100	<b>257</b>	242	257
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1
Magnesium	ppm	ASTM D5185m	450	<b>846</b>	773	790
Calcium	ppm	ASTM D5185m	3000	<b>1402</b>	1385	1371
Phosphorus	ppm	ASTM D5185m	1150	<b>924</b>	778	881
Zinc	ppm	ASTM D5185m	1350	<b>1123</b>	1020	1057
Sulfur	ppm	ASTM D5185m	4250	<b>2888</b>	3081	2935
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>17.6</b>	19.6	13.6
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	<b>8.6</b>	8.3	9.2
Visc @ 100°C	cSt	ASTM D445	14.4	<b>13.6</b>	13.9	14.2



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0198876 **Received** : 10 Jan 2024  
**Lab Number** : 06056521 **Diagnosed** : 11 Jan 2024  
**Unique Number** : 10822470 **Diagnostician** : Don Baldrige  
**Test Package** : CONST ( Additional Tests: TBN )

**JRE - CHARLOTTE**  
 9550 STATESVILLE ROAD  
 CHARLOTTE, NC  
 US 28269  
 Contact: CHARLOTTE SHOP  
 myoung@jamesriverequipment.com  
 T: (704)597-0211  
 F: (704)596-6198

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)