



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

Machine Id  
**JOHN DEERE 748L 718499**

Component  
**Diesel Engine**

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

### 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>JR0213614</b>	JR0204682	---
Sample Date		Client Info		<b>25 Jun 2024</b>	01 Apr 2024	---
Machine Age	hrs	Client Info		<b>974</b>	445	---
Oil Age	hrs	Client Info		<b>0</b>	0	---
Filter Age	hrs	Client Info		<b>0</b>	0	---
Oil Changed		Client Info		<b>N/A</b>	N/A	---
Filter Changed		Client Info		<b>N/A</b>	N/A	---
Sample Status				<b>NORMAL</b>	ABNORMAL	---

### WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185m	>51	<b>16</b>	36	---
Chromium	ppm	ASTM D5185m	>11	<b>&lt;1</b>	<1	---
Nickel	ppm	ASTM D5185m	>5	<b>5</b>	10	---
Titanium	ppm	ASTM D5185m		<b>0</b>	<1	---
Silver	ppm	ASTM D5185m	>3	<b>0</b>	0	---
Aluminum	ppm	ASTM D5185m	>31	<b>5</b>	5	---
Lead	ppm	ASTM D5185m	>26	<b>0</b>	3	---
Copper	ppm	ASTM D5185m	>26	<b>49</b>	▲ 204	---
Tin	ppm	ASTM D5185m	>4	<b>&lt;1</b>	2	---
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

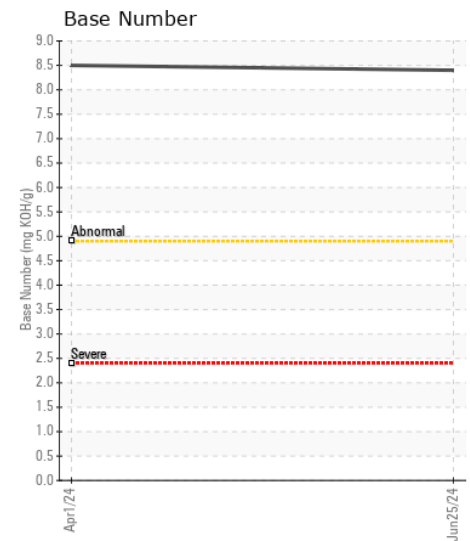
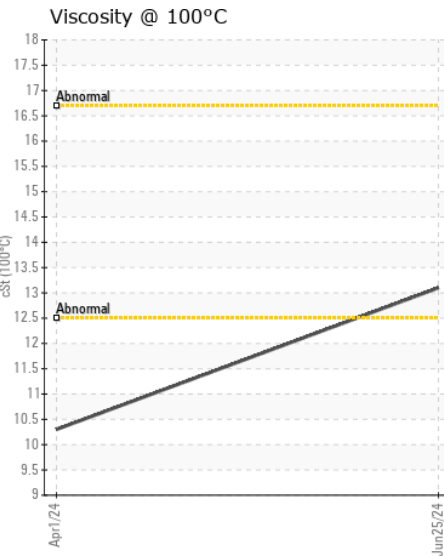
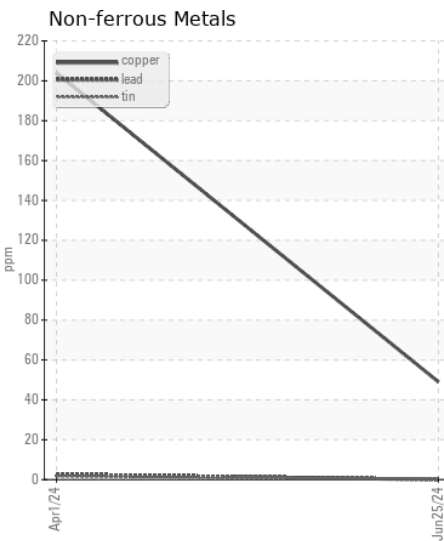
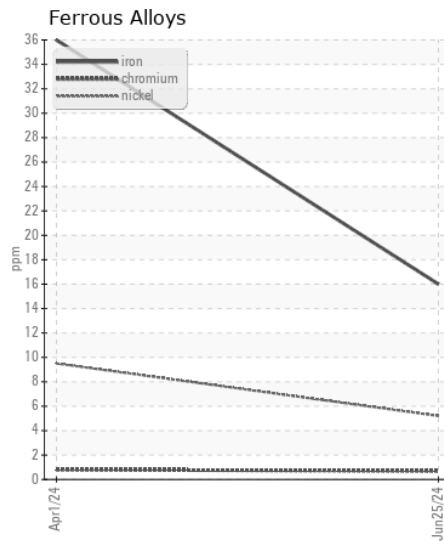
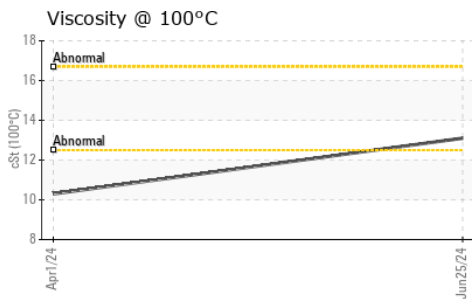
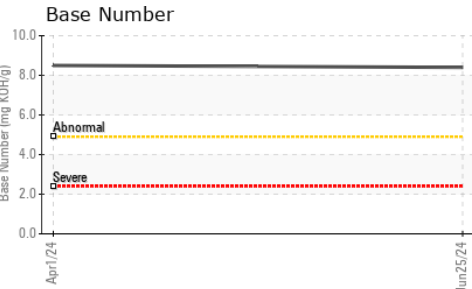
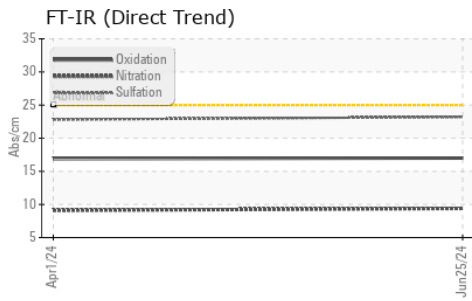
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>22	<b>12</b>	14	---
Potassium	ppm	ASTM D5185m	>20	<b>9</b>	6	---
Fuel		WC Method	>2.1	<b>&lt;1.0</b>	0.2	---
Water		WC Method	>0.21	<b>NEG</b>	NEG	---
Glycol		WC Method		<b>NEG</b>	NEG	---
Soot %	%	*ASTM D7844	>3	<b>0.7</b>	0.4	---
Nitration	Abs/cm	*ASTM D7624	>20	<b>9.4</b>	9.1	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>23.2</b>	22.8	---
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>3</b>	7	---
Boron	ppm	ASTM D5185m		<b>88</b>	154	---
Barium	ppm	ASTM D5185m		<b>0</b>	3	---
Molybdenum	ppm	ASTM D5185m		<b>260</b>	253	---
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	7	---
Magnesium	ppm	ASTM D5185m		<b>828</b>	865	---
Calcium	ppm	ASTM D5185m		<b>1432</b>	1523	---
Phosphorus	ppm	ASTM D5185m		<b>872</b>	861	---
Zinc	ppm	ASTM D5185m		<b>1154</b>	1028	---
Sulfur	ppm	ASTM D5185m		<b>2880</b>	3342	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>17.0</b>	16.9	---
Base Number (BN)	mg KOH/g	ASTM D2896		<b>8.4</b>	8.5	---
Visc @ 100°C	cSt	ASTM D445		<b>13.1</b>	10.3	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513

**Sample No.** : JR0213614

**Lab Number** : 06220810

**Unique Number** : 11099007

**Test Package** : CONST ( Additional Tests: TBN )

**Received** : 26 Jun 2024

**Tested** : 27 Jun 2024

**Diagnosed** : 27 Jun 2024 - Wes Davis

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)

**JRE - GREENSBORO**

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