



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

Machine Id  
**JOHN DEERE 250G 1FF250GXCMF611736**

Component  
**Diesel Engine**

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

### RECOMMENDATION

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>JR0215469</b>	JR05678973	JR0129014
Sample Date		Client Info		<b>10 May 2024</b>	27 Oct 2022	30 Jun 2022
Machine Age	hrs	Client Info		<b>3707</b>	1945	1441
Oil Age	hrs	Client Info		<b>1762</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>ABNORMAL</b>	NORMAL	NORMAL

### WEAR

Cylinder, crank, or cam shaft wear is indicated. All other component wear rates are normal.

Iron	ppm	ASTM D5185m	>51	<b>▲ 93</b>	17	15
Chromium	ppm	ASTM D5185m	>11	<b>3</b>	<1	<1
Nickel	ppm	ASTM D5185m	>5	<b>8</b>	3	4
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>6</b>	3	3
Lead	ppm	ASTM D5185m	>26	<b>6</b>	0	<1
Copper	ppm	ASTM D5185m	>26	<b>8</b>	6	11
Tin	ppm	ASTM D5185m	>4	<b>2</b>	<1	<1
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

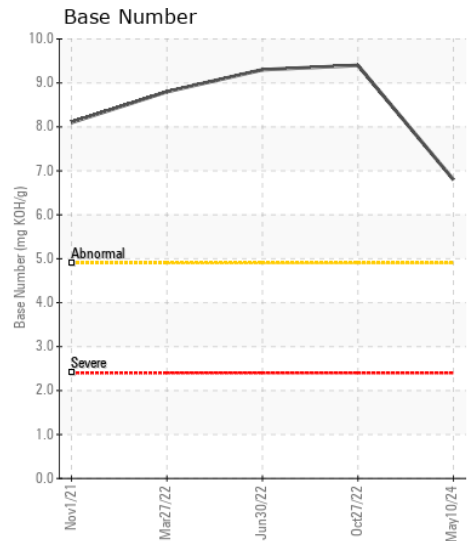
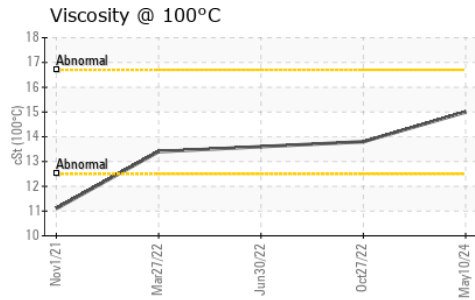
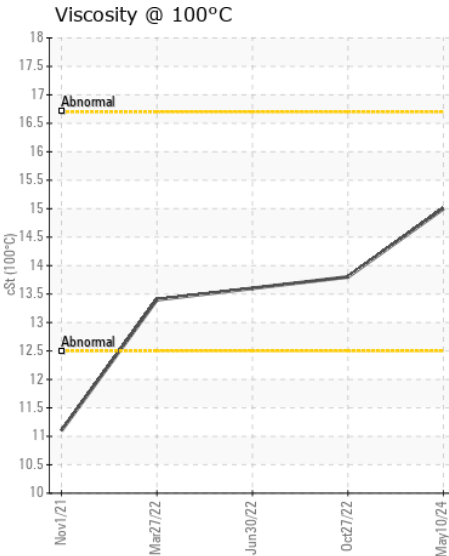
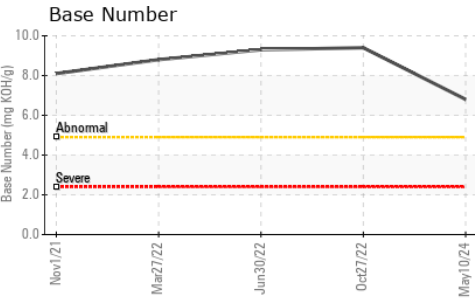
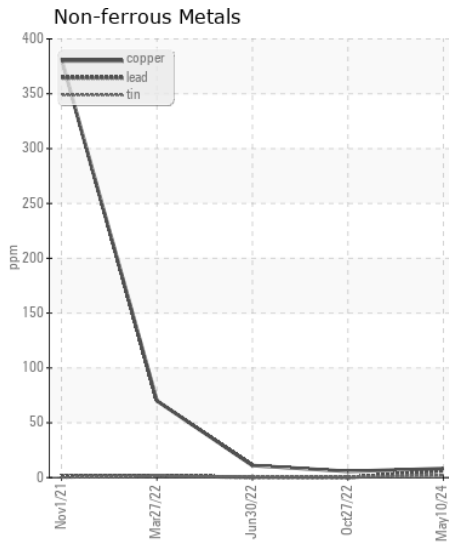
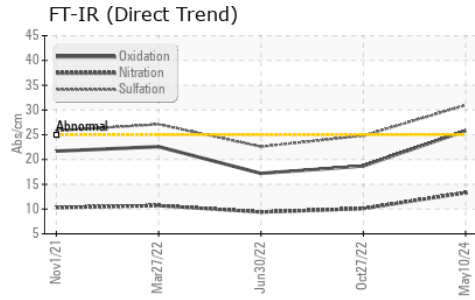
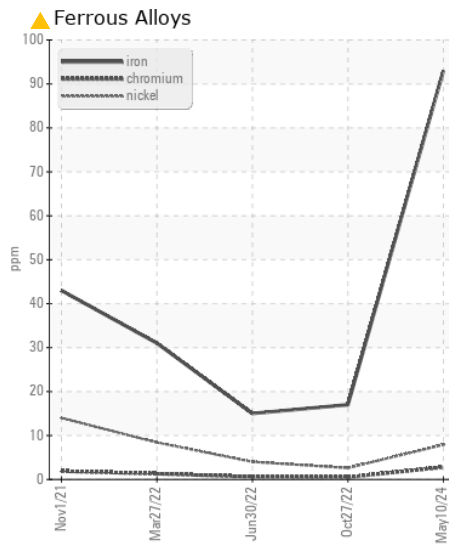
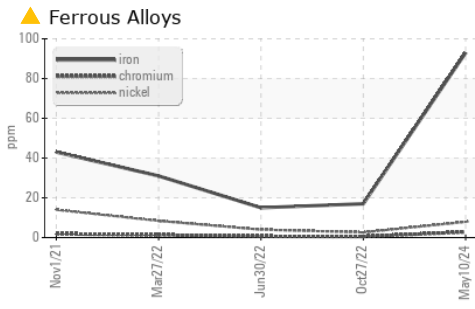
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>22	<b>12</b>	7	6
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	<1	0
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>1.6</b>	0.7	0.5
Nitration	Abs/cm	*ASTM D7624	>20	<b>13.3</b>	10.1	9.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>31.0</b>	24.8	22.6
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>5</b>	3	2
Boron	ppm	ASTM D5185m		<b>16</b>	177	197
Barium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	0
Molybdenum	ppm	ASTM D5185m		<b>231</b>	233	244
Manganese	ppm	ASTM D5185m		<b>2</b>	<1	<1
Magnesium	ppm	ASTM D5185m		<b>1057</b>	747	813
Calcium	ppm	ASTM D5185m		<b>1739</b>	1456	1451
Phosphorus	ppm	ASTM D5185m		<b>1131</b>	830	844
Zinc	ppm	ASTM D5185m		<b>1409</b>	1021	1020
Sulfur	ppm	ASTM D5185m		<b>3684</b>	3234	3354
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>25.8</b>	18.7	17.2
Base Number (BN)	mg KOH/g	ASTM D2896		<b>6.8</b>	9.4	9.3
Visc @ 100°C	cSt	ASTM D445		<b>15.0</b>	13.8	13.6



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0215469 **Received** : 13 May 2024  
**Lab Number** : 06176993 **Tested** : 14 May 2024  
**Unique Number** : 11023046 **Diagnosed** : 14 May 2024 - Don Baldrige  
**Test Package** : CONST ( Additional Tests: TBN )

**CARLTON'S BACKHOE**  
 9550 STATESVILLE ROAD  
 CHARLOTTE, NC  
 US 28269  
 Contact: LEO

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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