



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

Machine Id  
**JOHN DEERE 250G 1FF250GXCMF611686**  
 Component  
**Diesel Engine**  
 Fluid  
**JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (--- GAL)**

### RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>JR0207825</b>	JR0176813	JR0123625
Sample Date		Client Info		<b>01 May 2024</b>	12 Jul 2023	12 Apr 2022
Machine Age	hrs	Client Info		<b>1621</b>	1123	535
Oil Age	hrs	Client Info		<b>498</b>	588	535
Filter Age	hrs	Client Info		<b>498</b>	588	535
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>Changed</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	ABNORMAL	ABNORMAL

### WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>51	<b>45</b>	▲ 58	99
Chromium	ppm	ASTM D5185m	>11	<b>1</b>	1	3
Nickel	ppm	ASTM D5185m	>5	<b>2</b>	2	6
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1
Silver	ppm	ASTM D5185m	>3	<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185m	>31	<b>6</b>	4	7
Lead	ppm	ASTM D5185m	>26	<b>2</b>	0	1
Copper	ppm	ASTM D5185m	>26	<b>16</b>	▲ 60	▲ 600
Tin	ppm	ASTM D5185m	>4	<b>1</b>	<1	4
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

### CONTAMINATION

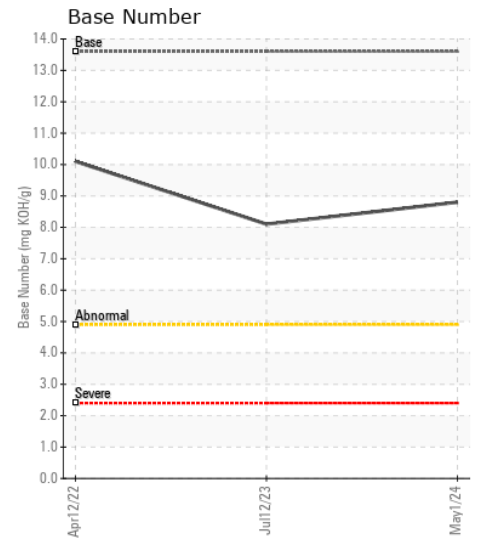
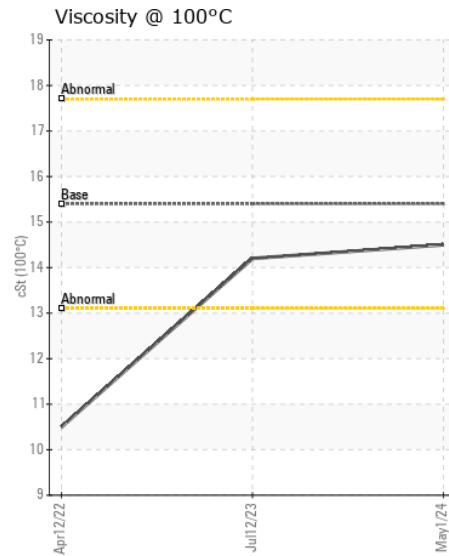
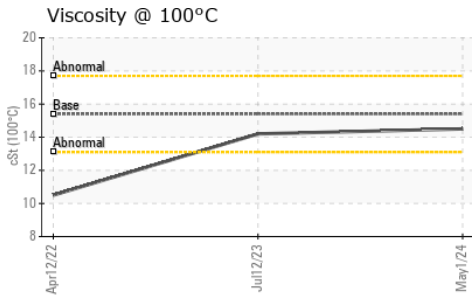
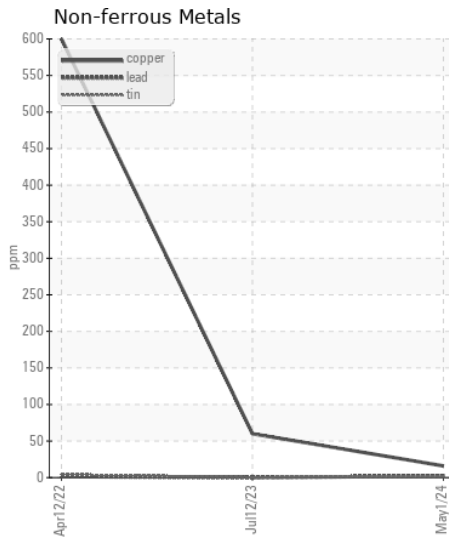
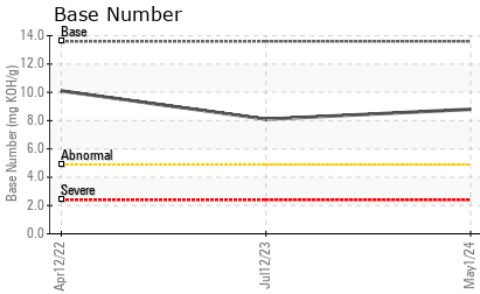
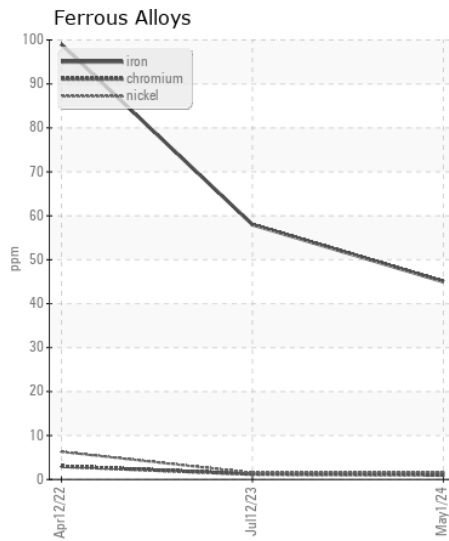
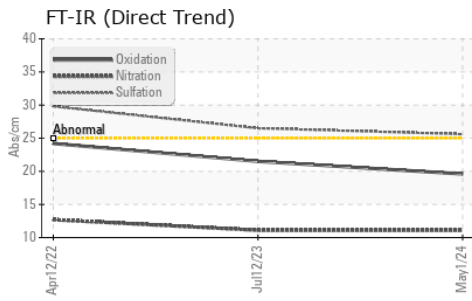
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>22	<b>10</b>	7	16
Potassium	ppm	ASTM D5185m	>20	<b>3</b>	2	4
Fuel		WC Method	>2.1	<b>&lt;1.0</b>	<1.0	0.4
Water		WC Method	>0.21	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844	>3	<b>1.3</b>	1.5	1.7
Nitration	Abs/cm	*ASTM D7624	>20	<b>11.1</b>	11.1	12.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>25.6</b>	26.5	29.8
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>4</b>	4	9
Boron	ppm	ASTM D5185m		<b>112</b>	61	149
Barium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>257</b>	221	282
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	2	7
Magnesium	ppm	ASTM D5185m		<b>849</b>	809	1016
Calcium	ppm	ASTM D5185m		<b>1560</b>	1564	1797
Phosphorus	ppm	ASTM D5185m		<b>1029</b>	893	1018
Zinc	ppm	ASTM D5185m		<b>1193</b>	1154	1139
Sulfur	ppm	ASTM D5185m		<b>3041</b>	3030	2579
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>19.6</b>	21.5	24.2
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	<b>8.8</b>	8.1	10.1
Visc @ 100°C	cSt	ASTM D445	15.4	<b>14.5</b>	14.2	● 10.5



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0207825 **Received** : 09 May 2024  
**Lab Number** : 06174918 **Tested** : 10 May 2024  
**Unique Number** : 11020971 **Diagnosed** : 10 May 2024 - Wes Davis  
**Test Package** : CONST ( Additional Tests: TBN )

**JRE - ASHEVILLE**  
 101 BRUCE DRIVE  
 ASHEVILLE, NC  
 US 28806

Contact: Randy Warren  
 randy.warren@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)

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