



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

Machine Id  
**JOHN DEERE 350G 1FF350GXLMF815193**

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>JR0202255</b>	JR0190855	JR0181522
Sample Date		Client Info		<b>27 Feb 2024</b>	30 Oct 2023	26 Jul 2023
Machine Age	hrs	Client Info		<b>3002</b>	2554	2008
Oil Age	hrs	Client Info		<b>2456</b>	546	471
Filter Age	hrs	Client Info		<b>0</b>	546	0
Oil Changed		Client Info		<b>Changed</b>	N/A	Changed
Filter Changed		Client Info		<b>Changed</b>	N/A	Changed
Sample Status				<b>NORMAL</b>	ABNORMAL	ABNORMAL

### WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>51	<b>17</b>	▲ 72	▲ 52
Chromium	ppm	ASTM D5185m	>11	<b>&lt;1</b>	1	<1
Nickel	ppm	ASTM D5185m	>5	<b>4</b>	▲ 26	▲ 18
Titanium	ppm	ASTM D5185m		<b>0</b>	<1	0
Silver	ppm	ASTM D5185m	>3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>31	<b>4</b>	6	4
Lead	ppm	ASTM D5185m	>26	<b>&lt;1</b>	2	0
Copper	ppm	ASTM D5185m	>26	<b>4</b>	10	4
Tin	ppm	ASTM D5185m	>4	<b>&lt;1</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

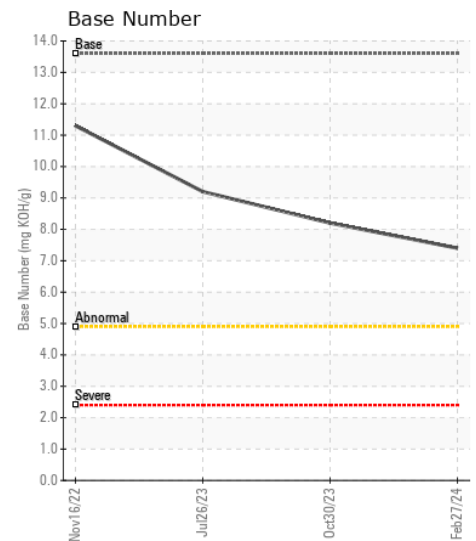
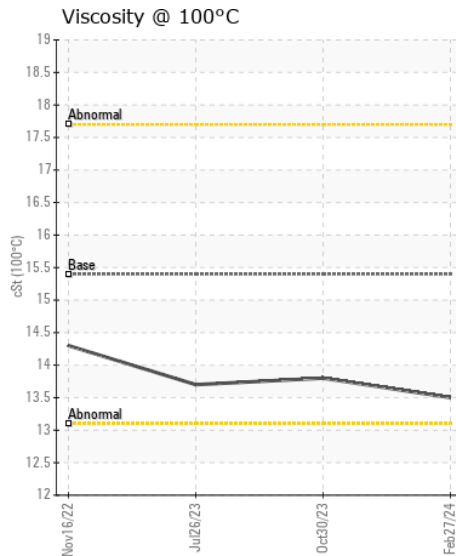
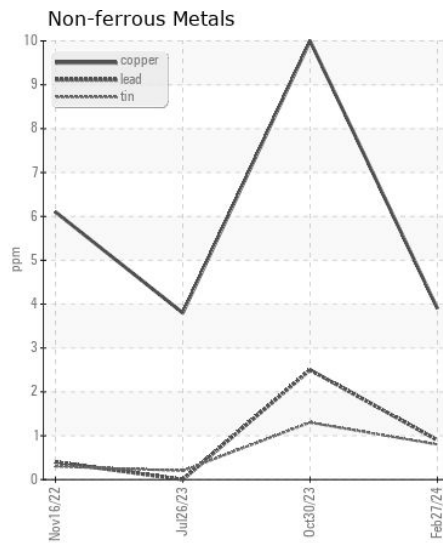
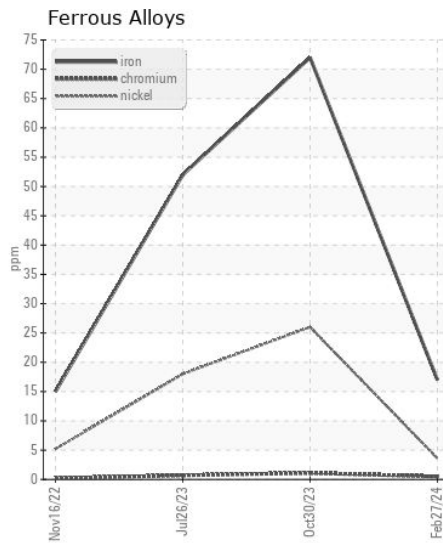
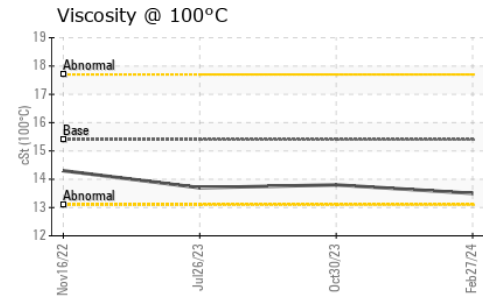
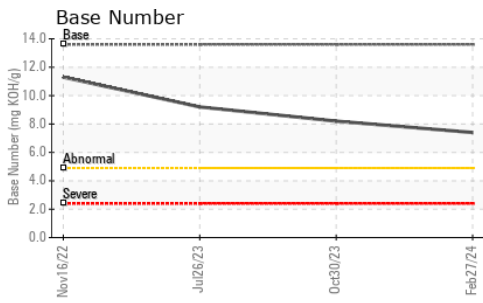
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>22	<b>8</b>	9	7
Potassium	ppm	ASTM D5185m	>20	<b>1</b>	3	<1
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>	0.8	0.4
Nitration	Abs/cm	*ASTM D7624	>20	<b>9.6</b>	9.8	8.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>24.3</b>	25.1	21.6
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>4</b>	6	3
Boron	ppm	ASTM D5185m		<b>139</b>	74	215
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>269</b>	237	253
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	2	1
Magnesium	ppm	ASTM D5185m		<b>998</b>	799	869
Calcium	ppm	ASTM D5185m		<b>1693</b>	1372	1512
Phosphorus	ppm	ASTM D5185m		<b>953</b>	825	893
Zinc	ppm	ASTM D5185m		<b>1303</b>	1002	1094
Sulfur	ppm	ASTM D5185m		<b>3309</b>	2465	3601
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>19.4</b>	19.1	16.0
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	<b>7.4</b>	8.2	9.2
Visc @ 100°C	cSt	ASTM D445	15.4	<b>13.5</b>	13.8	13.7



Certificate L2367

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

Sample No. : JR0202255

Lab Number : 06104155

Unique Number : 10902385

Test Package : CONST ( Additional Tests: TBN )

Received : 29 Feb 2024

Tested : 29 Feb 2024

Diagnosed : 02 Mar 2024 - Don Baldrige

JRE - GARNER

4161 AUBURN CHURCH RD

GARNER, NC

US 27529

Contact: RALEIGH SHOP

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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)