



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

Machine Id  
**JOHN DEERE 350G 40.006 (S/N 1FF350GXLCE808913)**

Component  
**Diesel Engine**

Fluid  
**JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (7 GAL)**

### RECOMMENDATION

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>JR0203801</b>	JR0072404	JR0072459
Sample Date		Client Info		<b>01 Feb 2024</b>	23 Dec 2020	23 Dec 2020
Machine Age	hrs	Client Info		<b>10496</b>	7567	7569
Oil Age	hrs	Client Info		<b>500</b>	0	0
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>	SEVERE	NORMAL

### WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>51	<b>27</b>	277	14
Chromium	ppm	ASTM D5185m	>11	<b>&lt;1</b>	8	<1
Nickel	ppm	ASTM D5185m	>5	<b>0</b>	4	<1
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Silver	ppm	ASTM D5185m	>3	<b>0</b>	<1	1
Aluminum	ppm	ASTM D5185m	>31	<b>2</b>	11	3
Lead	ppm	ASTM D5185m	>26	<b>0</b>	9	<1
Copper	ppm	ASTM D5185m	>26	<b>8</b>	16	2
Tin	ppm	ASTM D5185m	>4	<b>&lt;1</b>	4	<1
Vanadium	ppm	ASTM D5185m		<b>0</b>	<1	<1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

### CONTAMINATION

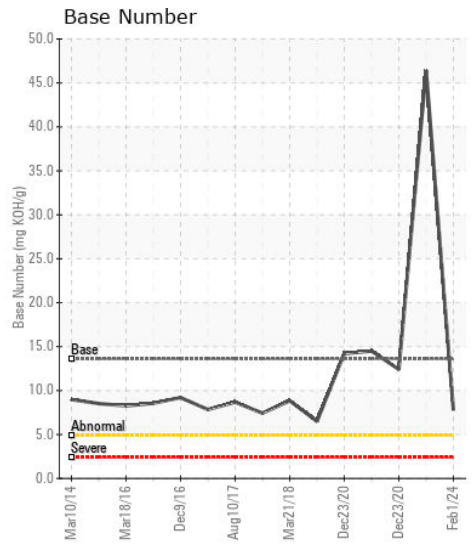
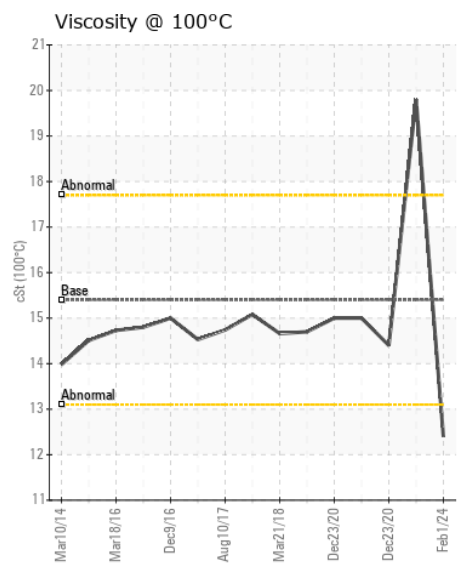
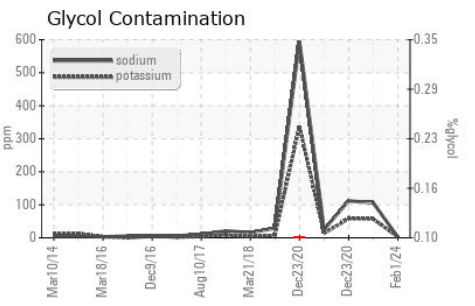
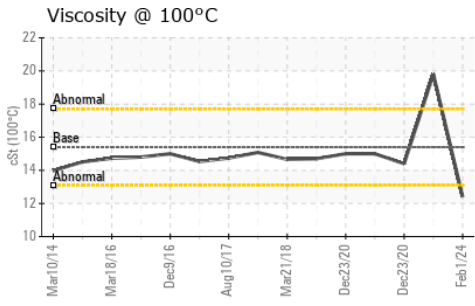
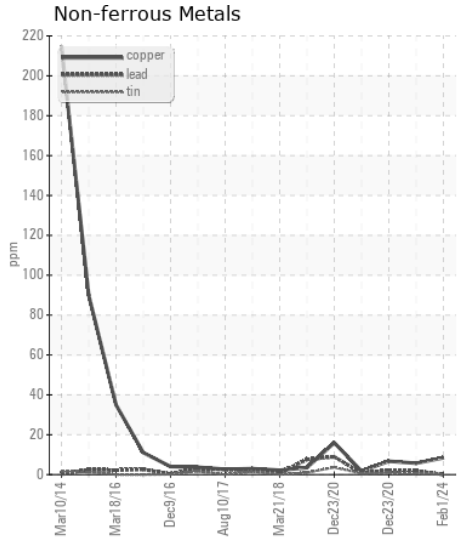
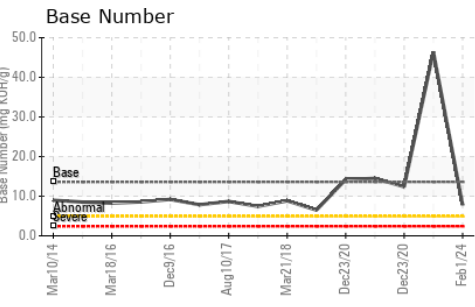
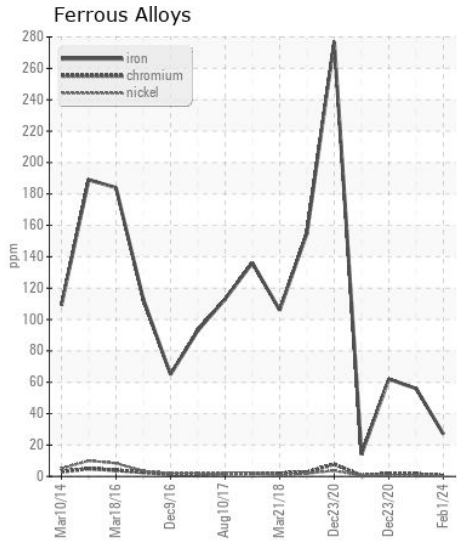
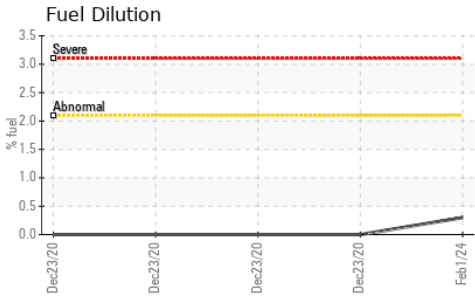
Fuel content negligible. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>22	<b>5</b>	58	9
Potassium	ppm	ASTM D5185m	>20	<b>3</b>	338	14
Fuel	%	ASTM D3524	>2.1	<b>0.3</b>	<1.0	<1.0
Water		WC Method	>0.21	<b>NEG</b>	NEG	NEG
Glycol	%	*ASTM D2982		<b>NEG</b>	0.10	NEG
Soot %	%	*ASTM D7844	>3	<b>0.1</b>	0.9	0.1
Nitration	Abs/cm	*ASTM D7624	>20	<b>7.8</b>	21.4	6.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>18.5</b>	15.9	21.4
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 acceptable for the time in service.

Sodium	ppm	ASTM D5185m	>31	<b>2</b>	595	25
Boron	ppm	ASTM D5185m		<b>51</b>	131	254
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>107</b>	67	238
Manganese	ppm	ASTM D5185m		<b>0</b>	3	<1
Magnesium	ppm	ASTM D5185m		<b>622</b>	308	749
Calcium	ppm	ASTM D5185m		<b>1505</b>	2051	1538
Phosphorus	ppm	ASTM D5185m		<b>902</b>	1047	919
Zinc	ppm	ASTM D5185m		<b>1203</b>	1095	1043
Sulfur	ppm	ASTM D5185m		<b>3323</b>	2946	2874
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>14.2</b>	27.4	15.1
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	<b>7.8</b>	46.4	12.4
Visc @ 100°C	cSt	ASTM D445	15.4	<b>12.4</b>	19.8	14.4



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0203801 **Received** : 13 Feb 2024  
**Lab Number** : 06087124 **Tested** : 15 Feb 2024  
**Unique Number** : 10874569 **Diagnosed** : 15 Feb 2024 - Doug Bogart  
**Test Package** : CONST ( Additional Tests: FuelDilution, PercentFuel, TBN )

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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)