



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

Area  
**[W47600]**

Machine Id  
**JOHN DEERE 350G 1FF350GXVMF815210**

Component  
**Diesel Engine**

Fluid  
**JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (27 QTS)**

### RECOMMENDATION

We advise that you check for the source of the coolant leak. Check for low coolant level. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>JR0218664</b>	JR0218543	JR0208387
Sample Date		Client Info		<b>18 Jun 2024</b>	06 Jun 2024	19 Mar 2024
Machine Age	hrs	Client Info		<b>4629</b>	4572	4130
Oil Age	hrs	Client Info		<b>60</b>	500	4130
Filter Age	hrs	Client Info		<b>60</b>	500	4130
Oil Changed		Client Info		<b>Not Changd</b>	Changed	Not Changd
Filter Changed		Client Info		<b>Not Changd</b>	Changed	Not Changd
Sample Status				<b>ABNORMAL</b>	SEVERE	ABNORMAL

### WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>51	<b>13</b>	38	8
Chromium	ppm	ASTM D5185m	>11	<b>0</b>	<1	<1
Nickel	ppm	ASTM D5185m	>5	<b>&lt;1</b>	▲ 7	2
Titanium	ppm	ASTM D5185m		<b>0</b>	<1	<1
Silver	ppm	ASTM D5185m	>3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>31	<b>2</b>	3	2
Lead	ppm	ASTM D5185m	>26	<b>0</b>	2	<1
Copper	ppm	ASTM D5185m	>26	<b>4</b>	24	5
Tin	ppm	ASTM D5185m	>4	<b>0</b>	<1	<1
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	<1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

### CONTAMINATION

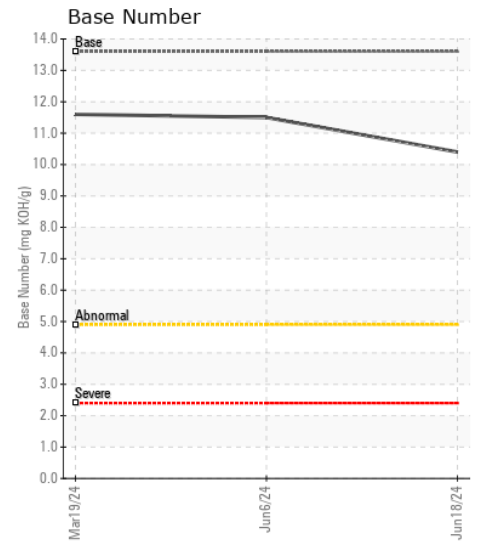
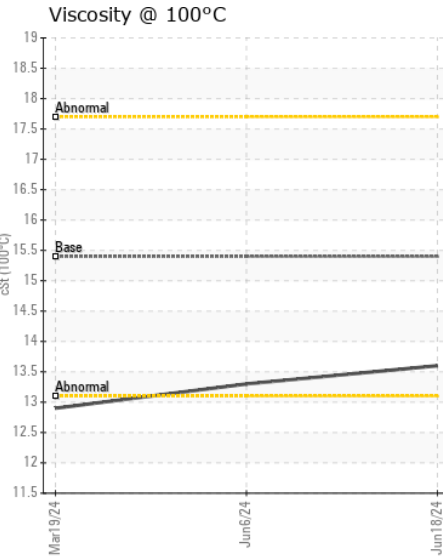
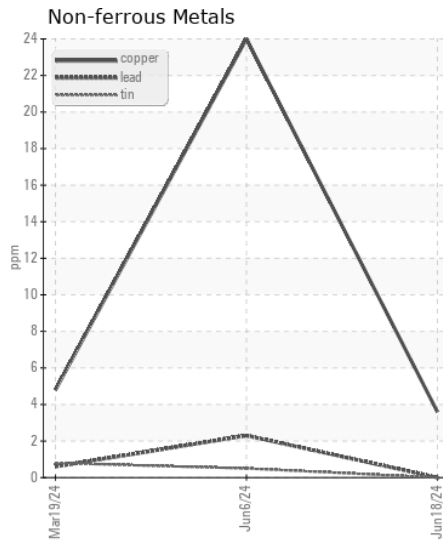
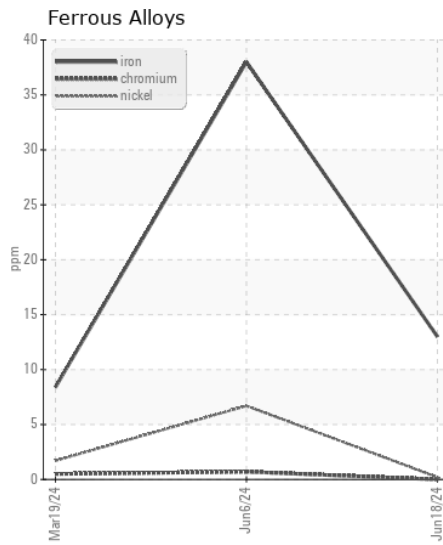
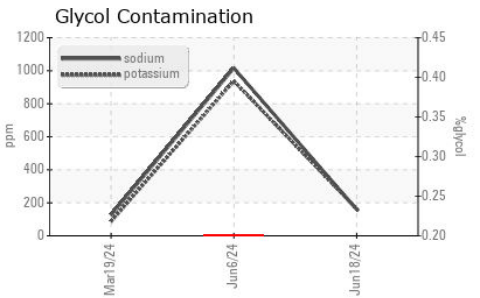
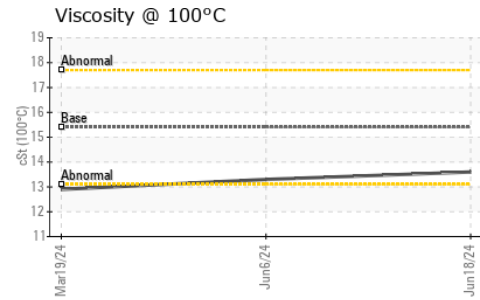
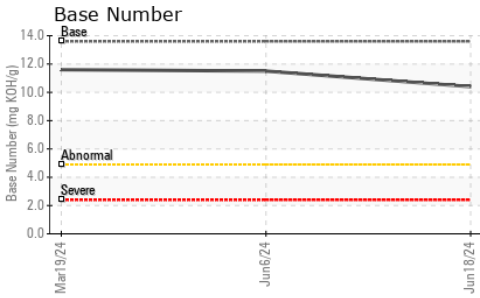
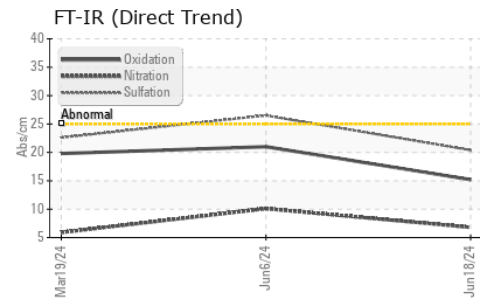
Sodium and/or potassium levels are high.

Silicon	ppm	ASTM D5185m	>22	<b>9</b>	▲ 25	9
Potassium	ppm	ASTM D5185m	>20	▲ <b>163</b>	▲ 938	▲ 87
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	%	*ASTM D2982		<b>NEG</b>	▲ 0.20	NEG
Soot %	%	*ASTM D7844	>3	<b>0.2</b>	0.4	0.1
Nitration	Abs/cm	*ASTM D7624	>20	<b>6.8</b>	10.1	5.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>20.4</b>	26.5	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.

Sodium	ppm	ASTM D5185m	>31	▲ <b>160</b>	▲ 1016	▲ 125
Boron	ppm	ASTM D5185m		<b>189</b>	9	34
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>211</b>	181	42
Manganese	ppm	ASTM D5185m		<b>0</b>	<1	<1
Magnesium	ppm	ASTM D5185m		<b>702</b>	488	275
Calcium	ppm	ASTM D5185m		<b>1513</b>	1631	1063
Phosphorus	ppm	ASTM D5185m		<b>908</b>	915	520
Zinc	ppm	ASTM D5185m		<b>1036</b>	1148	659
Sulfur	ppm	ASTM D5185m		<b>3612</b>	3592	2040
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>15.2</b>	21.0	19.8
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	<b>10.4</b>	11.5	11.6
Visc @ 100°C	cSt	ASTM D445	15.4	<b>13.6</b>	13.3	12.9



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0218664 **Received** : 19 Jun 2024  
**Lab Number** : 06214361 **Tested** : 21 Jun 2024  
**Unique Number** : 11087225 **Diagnosed** : 21 Jun 2024 - Sean Felton  
**Test Package** : CONST ( Additional Tests: TBN )

**JRE - MANASSAS PARK**  
 9107 OWENS DRIVE  
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 US 20111

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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)