



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

Area  
**[44633]**  
 Machine Id  
**JOHN DEERE 350G 1FF350GXTHF811706**  
 Component  
**Left Final Drive**  
 Fluid  
**JOHN DEERE GL-5 80W90 (2 GAL)**

### RECOMMENDATION

We advise that you check all areas where dirt can enter the system. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>JR0203179</b>	JR0183869	JR0160236
Sample Date		Client Info		<b>13 Feb 2024</b>	15 Aug 2023	16 Feb 2023
Machine Age	hrs	Client Info		<b>6937</b>	6446	5949
Oil Age	hrs	Client Info		<b>4517</b>	4523	4511
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Not Changd</b>	Not Changd	N/A
Filter Changed		Client Info		<b>N/A</b>	None	N/A
Sample Status				<b>SEVERE</b>	SEVERE	SEVERE

### WEAR

All component wear rates are normal for time on oil.

PQ		ASTM D8184	>1250	<b>251</b>	177	913
Iron	ppm	ASTM D5185m	>750	<b>2301</b>	1811	3997
Chromium	ppm	ASTM D5185m	>9	<b>14</b>	12	29
Nickel	ppm	ASTM D5185m	>10	<b>3</b>	3	6
Titanium	ppm	ASTM D5185m		<b>10</b>	10	26
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>40	<b>▲ 121</b>	▲ 120	▲ 120
Lead	ppm	ASTM D5185m	>15	<b>0</b>	<1	<1
Copper	ppm	ASTM D5185m	>40	<b>5</b>	4	8
Tin	ppm	ASTM D5185m	>10	<b>0</b>	0	<1
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	MODER
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

### CONTAMINATION

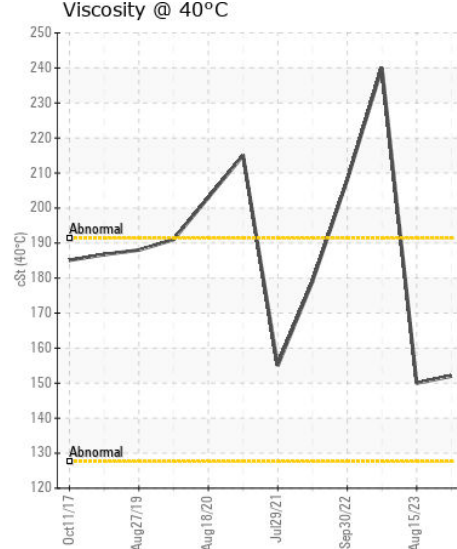
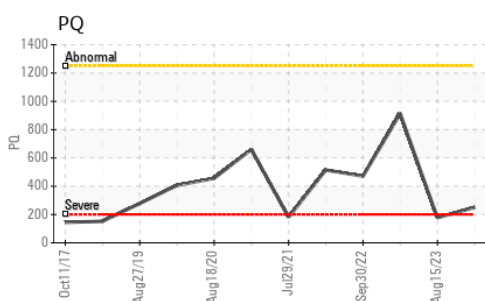
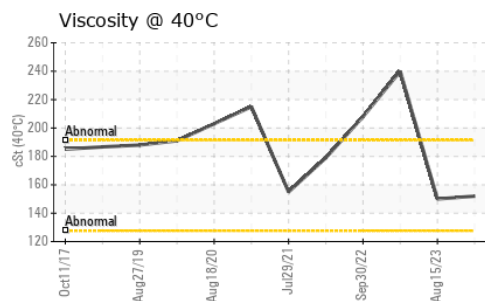
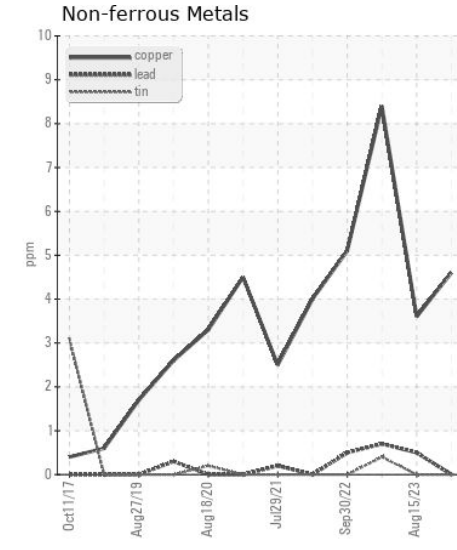
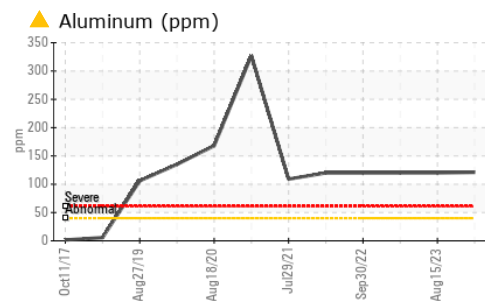
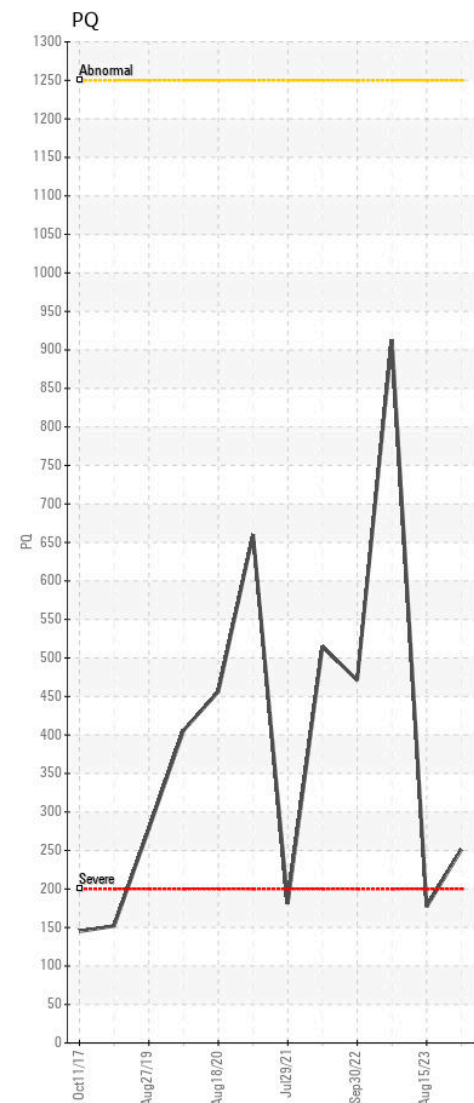
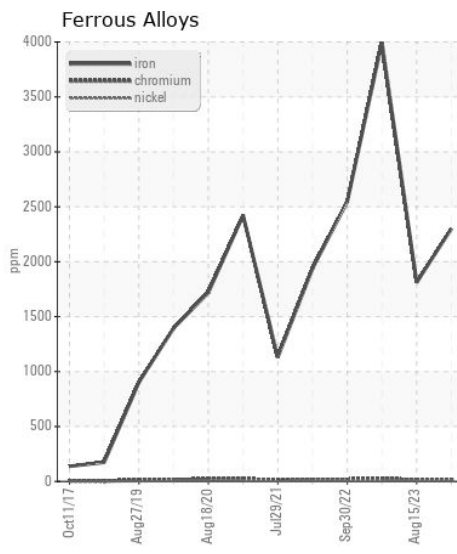
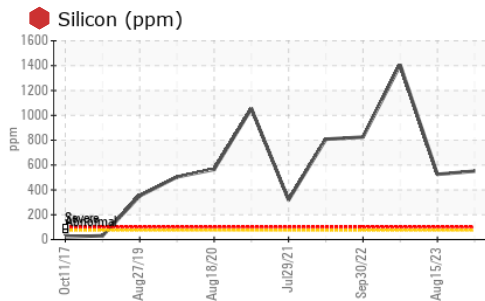
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Silicon	ppm	ASTM D5185m	>75	<b>● 551</b>	● 525	● 1407
Potassium	ppm	ASTM D5185m	>20	<b>33</b>	34	77
Water		WC Method	>0.075	<b>NEG</b>	NEG	NEG
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	>0.075	<b>NEG</b>	NEG	NEG

### FLUID CONDITION

The oil is no longer serviceable due to the presence of contaminants.

Sodium	ppm	ASTM D5185m	>51	<b>12</b>	15	34
Boron	ppm	ASTM D5185m		<b>69</b>	86	23
Barium	ppm	ASTM D5185m		<b>11</b>	0	2
Molybdenum	ppm	ASTM D5185m		<b>2</b>	1	3
Manganese	ppm	ASTM D5185m		<b>15</b>	14	29
Magnesium	ppm	ASTM D5185m		<b>22</b>	24	47
Calcium	ppm	ASTM D5185m		<b>71</b>	56	77
Phosphorus	ppm	ASTM D5185m		<b>628</b>	713	304
Zinc	ppm	ASTM D5185m		<b>25</b>	17	20
Sulfur	ppm	ASTM D5185m		<b>18065</b>	22282	18920
Visc @ 40°C	cSt	ASTM D445		<b>152</b>	150	240



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0203179 **Received** : 14 Feb 2024  
**Lab Number** : 06089693 **Tested** : 16 Feb 2024  
**Unique Number** : 10877138 **Diagnosed** : 16 Feb 2024 - Sean Felton  
**Test Package** : CONST ( Additional Tests: PQ )

**JRE - MANASSAS PARK**  
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Certificate L2367  
 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)