



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

Area

**[BENCHMARK]**

Machine Id

**JOHN DEERE 350G 1FF350GXKEE809751**

Component

**Right Final Drive**

Fluid

**JOHN DEERE GL-5 80W90 (2 GAL)**

### RECOMMENDATION

We advise that you check all areas where dirt can enter the system. Oil and filter change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>JR0203263</b>	JR0153273	JR0132856
Sample Date		Client Info		<b>29 Jan 2024</b>	17 Mar 2023	27 Jun 2022
Machine Age	hrs	Client Info		<b>10096</b>	9283	8481
Oil Age	hrs	Client Info		<b>0</b>	802	6879
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Changed</b>	Not Changd	Changed
Filter Changed		Client Info		<b>Changed</b>	N/A	None
Sample Status				<b>SEVERE</b>	SEVERE	SEVERE

### WEAR

Gear wear is indicated.

PQ		ASTM D8184	>1250	<b>▲ 1973</b>	884	386
Iron	ppm	ASTM D5185m	>750	<b>● 3581</b>	● 2126	1590
Chromium	ppm	ASTM D5185m	>9	<b>▲ 19</b>	▲ 12	8
Nickel	ppm	ASTM D5185m	>10	<b>5</b>	6	2
Titanium	ppm	ASTM D5185m		<b>▲ 21</b>	▲ 15	10
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>40	<b>▲ 246</b>	▲ 208	▲ 160
Lead	ppm	ASTM D5185m	>15	<b>&lt;1</b>	0	0
Copper	ppm	ASTM D5185m	>40	<b>6</b>	3	3
Tin	ppm	ASTM D5185m	>10	<b>&lt;1</b>	<1	<1
Vanadium	ppm	ASTM D5185m		<b>1</b>	<1	<1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	▲ HEAVY	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

### CONTAMINATION

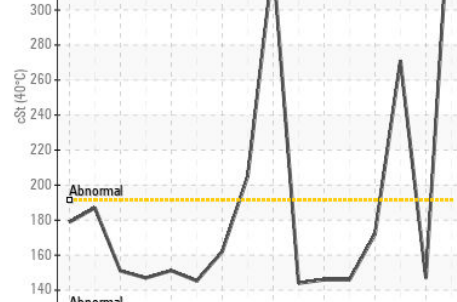
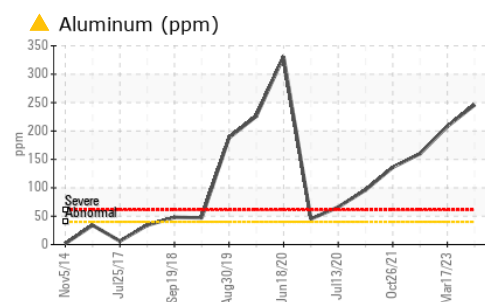
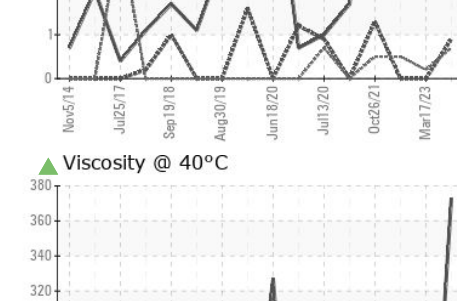
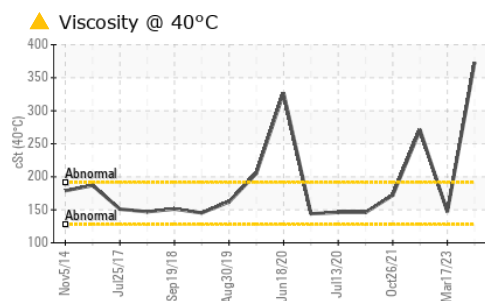
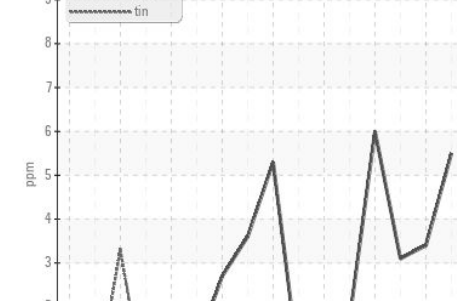
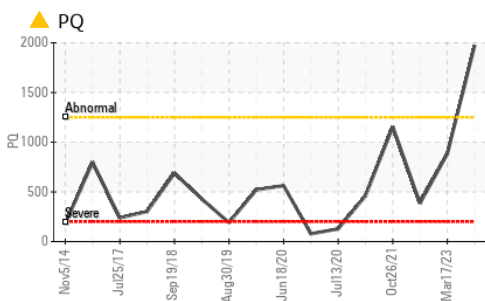
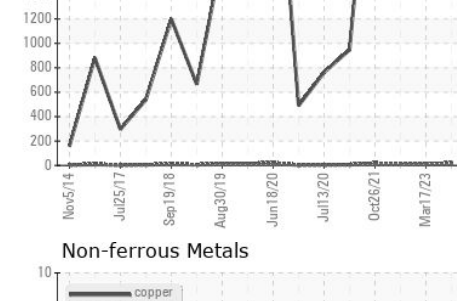
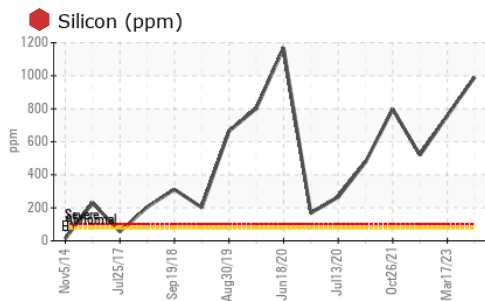
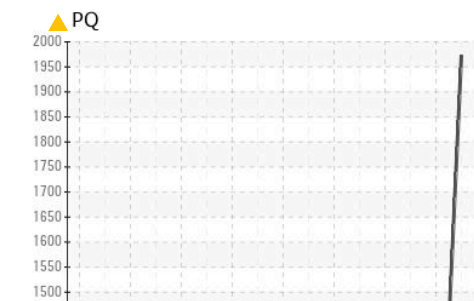
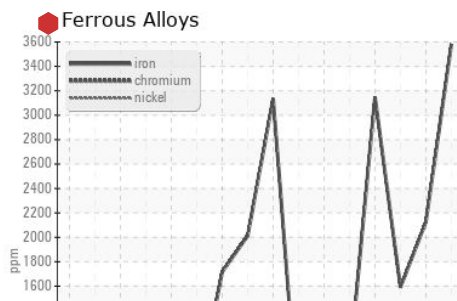
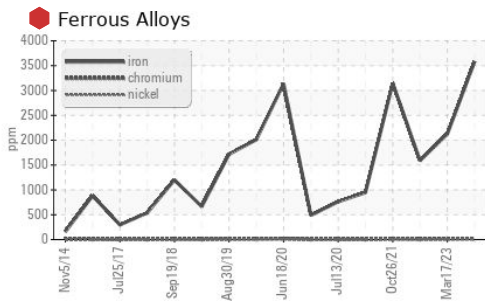
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Silicon	ppm	ASTM D5185m	>75	<b>● 991</b>	● 757	● 519
Potassium	ppm	ASTM D5185m	>20	<b>65</b>	50	35
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 viscosity is higher than normal. The oil is no longer serviceable due to the presence of contaminants.

Sodium	ppm	ASTM D5185m	>51	<b>41</b>	32	30
Boron	ppm	ASTM D5185m		<b>10</b>	8	14
Barium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>1</b>	2	2
Manganese	ppm	ASTM D5185m		<b>23</b>	14	11
Magnesium	ppm	ASTM D5185m		<b>56</b>	46	48
Calcium	ppm	ASTM D5185m		<b>61</b>	48	72
Phosphorus	ppm	ASTM D5185m		<b>324</b>	357	246
Zinc	ppm	ASTM D5185m		<b>0</b>	0	6
Sulfur	ppm	ASTM D5185m		<b>18841</b>	23523	17720
Visc @ 40°C	cSt	ASTM D445		<b>▲ 373</b>	147	271



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0203263 **Received** : 14 Feb 2024  
**Lab Number** : 06089722 **Tested** : 16 Feb 2024  
**Unique Number** : 10877167 **Diagnosed** : 16 Feb 2024 - Sean Felton  
**Test Package** : CONST ( Additional Tests: PQ )

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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)