



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

Area  
**[44833]**  
 Machine Id  
**JOHN DEERE 50G 1FF050GXPMH294003**  
 Component  
**Left Final Drive**  
 Fluid  
**JOHN DEERE GL-5 80W90 (--- QTS)**

### RECOMMENDATION

We advise that you check all areas where dirt can enter the system. The oil 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>JR0199514</b>	JR0181958	JR0162814
Sample Date		Client Info		<b>13 Feb 2024</b>	31 Jul 2023	23 Feb 2023
Machine Age	hrs	Client Info		<b>2444</b>	1949	1441
Oil Age	hrs	Client Info		<b>495</b>	0	495
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Not Changd</b>	Changed	Not Changd
Filter Changed		Client Info		<b>N/A</b>	N/A	N/A
Sample Status				<b>ABNORMAL</b>	ABNORMAL	ABNORMAL

### WEAR

Gear wear is indicated.

PQ		ASTM D8184	>1250	<b>260</b>	123	137
Iron	ppm	ASTM D5185m	>750	<b>▲ 1111</b>	1693	<b>▲ 879</b>
Chromium	ppm	ASTM D5185m	>9	<b>▲ 16</b>	24	<b>▲ 16</b>
Nickel	ppm	ASTM D5185m	>10	<b>5</b>	6	6
Titanium	ppm	ASTM D5185m		<b>4</b>	4	4
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>40	<b>▲ 34</b>	<b>▲ 33</b>	<b>▲ 27</b>
Lead	ppm	ASTM D5185m	>15	<b>&lt;1</b>	0	0
Copper	ppm	ASTM D5185m	>40	<b>3</b>	5	3
Tin	ppm	ASTM D5185m	>10	<b>&lt;1</b>	0	<1
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	MODER
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

### CONTAMINATION

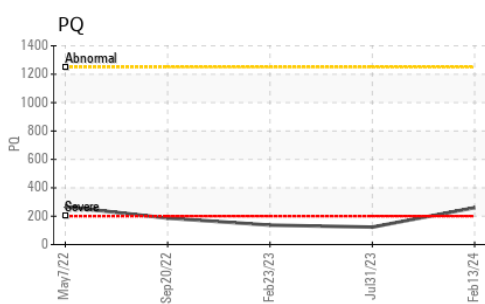
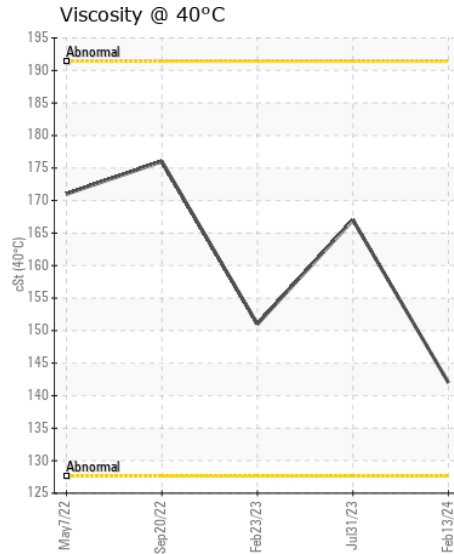
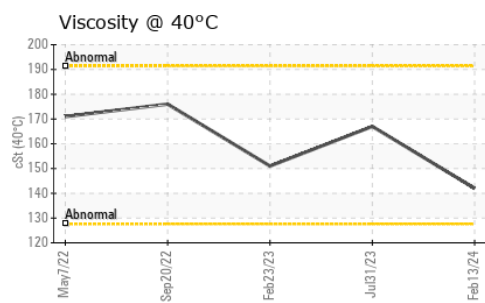
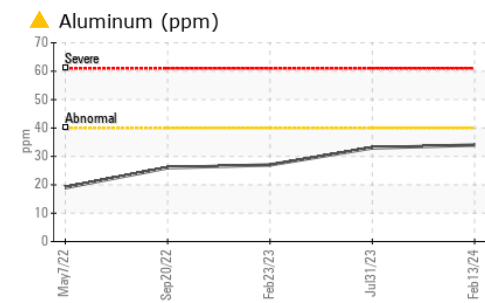
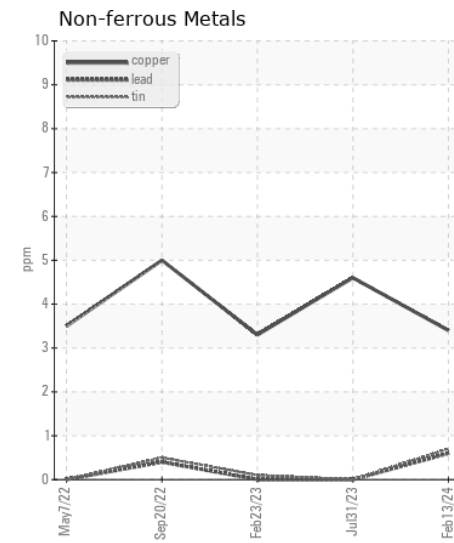
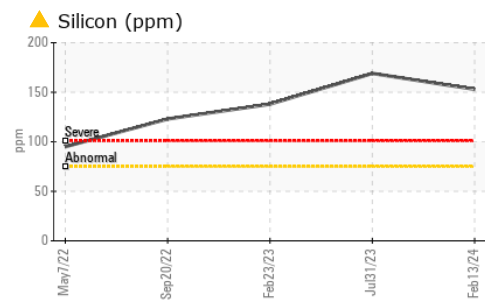
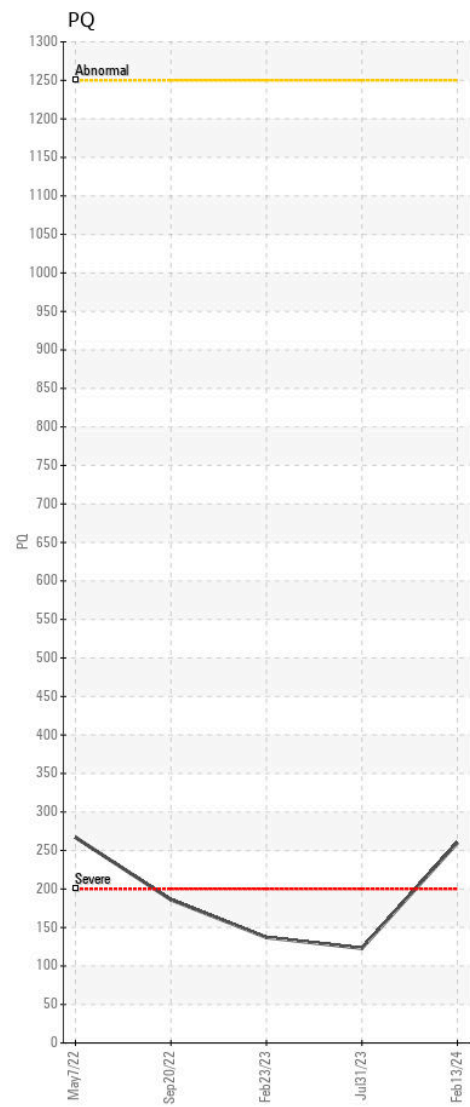
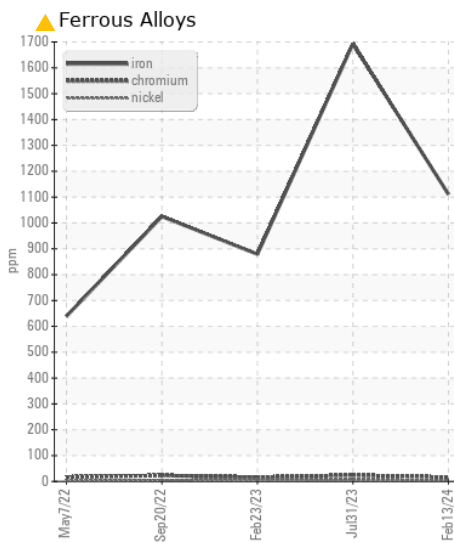
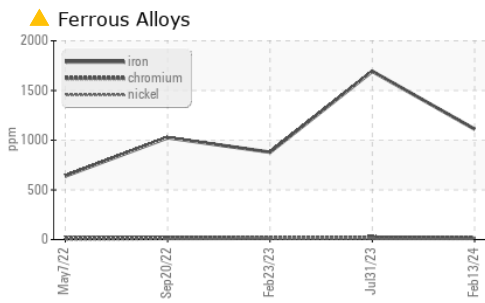
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Silicon	ppm	ASTM D5185m	>75	<b>▲ 153</b>	<b>▲ 169</b>	<b>▲ 138</b>
Potassium	ppm	ASTM D5185m	>20	<b>19</b>	34	33
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 condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m	>51	<b>4</b>	8	6
Boron	ppm	ASTM D5185m		<b>23</b>	35	53
Barium	ppm	ASTM D5185m		<b>0</b>	0	2
Molybdenum	ppm	ASTM D5185m		<b>&lt;1</b>	4	1
Manganese	ppm	ASTM D5185m		<b>12</b>	19	13
Magnesium	ppm	ASTM D5185m		<b>12</b>	22	6
Calcium	ppm	ASTM D5185m		<b>19</b>	40	29
Phosphorus	ppm	ASTM D5185m		<b>741</b>	1447	1283
Zinc	ppm	ASTM D5185m		<b>55</b>	110	74
Sulfur	ppm	ASTM D5185m		<b>19739</b>	25080	21788
Visc @ 40°C	cSt	ASTM D445		<b>142</b>	167	151



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0199514 **Received** : 14 Feb 2024  
**Lab Number** : 06089703 **Tested** : 16 Feb 2024  
**Unique Number** : 10877148 **Diagnosed** : 16 Feb 2024 - Sean Felton  
**Test Package** : CONST ( Additional Tests: PQ )

**B & S SITE DEVELOPMENT**  
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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)