



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



Area  
**[W67699]**  
 Machine Id  
**JOHN DEERE 210G 1FF210GXJMF529152**  
 Component  
**Right Final Drive**  
 Fluid  
**JOHN DEERE GL-5 80W90 (--- GAL)**

### 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. ( Customer Sample Comment: W67699 )

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>JR0188545</b>	JR0179030	JR0162622
Sample Date		Client Info		<b>16 Jan 2024</b>	31 Jul 2023	22 May 2023
Machine Age	hrs	Client Info		<b>4307</b>	3518	3007
Oil Age	hrs	Client Info		<b>3760</b>	547	500
Filter Age	hrs	Client Info		<b>0</b>	3518	500
Oil Changed		Client Info		<b>Changed</b>	Not Changd	Changed
Filter Changed		Client Info		<b>N/A</b>	N/A	Changed
Sample Status				<b>ABNORMAL</b>	ABNORMAL	ABNORMAL

### WEAR

All component wear rates are normal for time on oil.

PQ		ASTM D8184	>1250	<b>457</b>	384	232
Iron	ppm	ASTM D5185m	>750	<b>1807</b>	▲ 1208	▲ 1694
Chromium	ppm	ASTM D5185m	>9	<b>17</b>	▲ 12	▲ 11
Nickel	ppm	ASTM D5185m	>10	<b>2</b>	1	4
Titanium	ppm	ASTM D5185m		<b>4</b>	4	13
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>40	▲ <b>81</b>	▲ 70	▲ 174
Lead	ppm	ASTM D5185m	>15	<b>&lt;1</b>	0	0
Copper	ppm	ASTM D5185m	>40	<b>7</b>	3	4
Tin	ppm	ASTM D5185m	>10	<b>&lt;1</b>	0	0
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

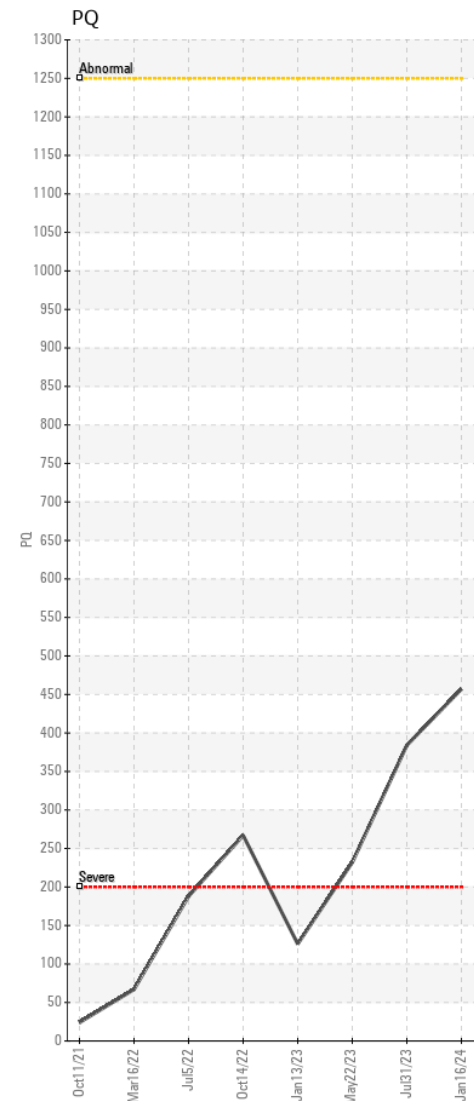
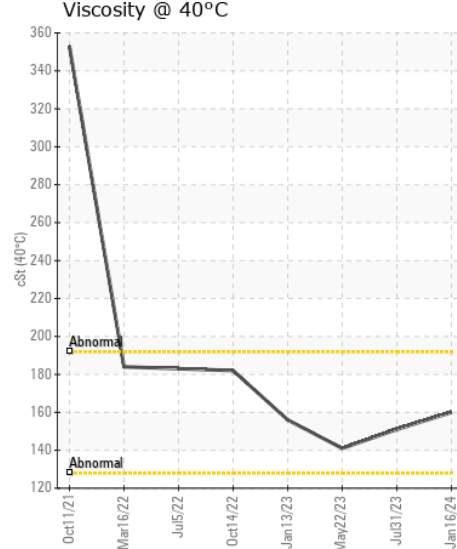
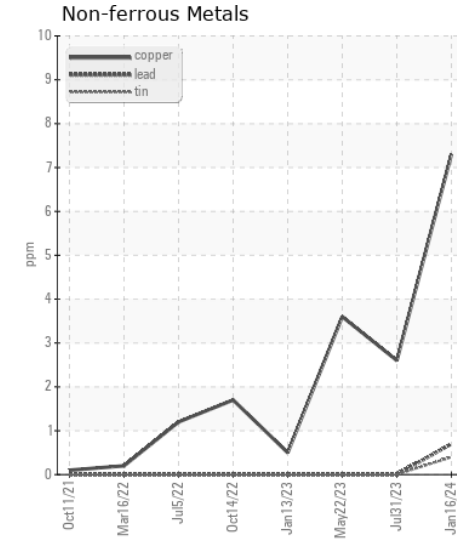
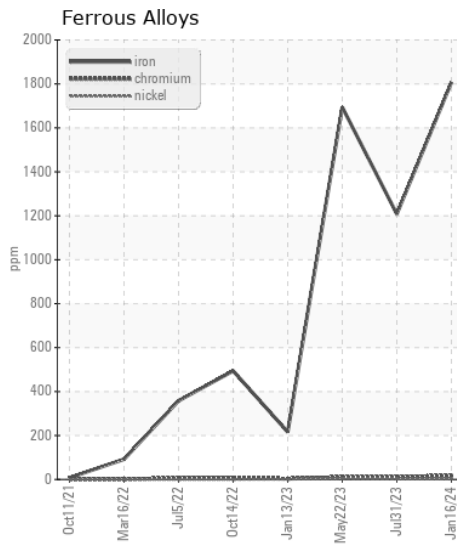
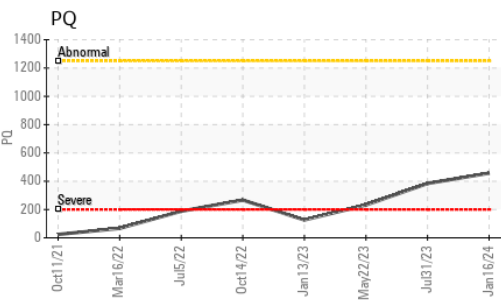
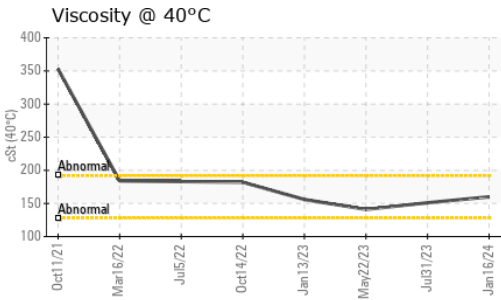
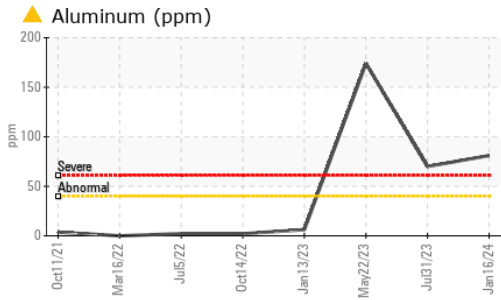
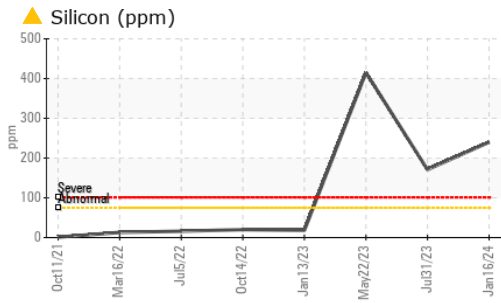
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Silicon	ppm	ASTM D5185m	>75	▲ <b>240</b>	▲ 171	▲ 415
Potassium	ppm	ASTM D5185m	>20	<b>15</b>	13	21
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>7</b>	6	12
Boron	ppm	ASTM D5185m		<b>16</b>	17	25
Barium	ppm	ASTM D5185m		<b>2</b>	2	0
Molybdenum	ppm	ASTM D5185m		<b>&lt;1</b>	<1	1
Manganese	ppm	ASTM D5185m		<b>17</b>	13	11
Magnesium	ppm	ASTM D5185m		<b>9</b>	8	19
Calcium	ppm	ASTM D5185m		<b>98</b>	9	42
Phosphorus	ppm	ASTM D5185m		<b>406</b>	416	318
Zinc	ppm	ASTM D5185m		<b>35</b>	23	0
Sulfur	ppm	ASTM D5185m		<b>20265</b>	22207	21276
Visc @ 40°C	cSt	ASTM D445		<b>160</b>	151	141



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0188545 **Received** : 18 Jan 2024  
**Lab Number** : 06064528 **Diagnosed** : 21 Jan 2024  
**Unique Number** : 10835910 **Diagnostician** : Don Baldrige  
**Test Package** : CONST ( Additional Tests: PQ )

**JRE - CHARLOTTE**  
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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)