



Machine Id  
**JOHN DEERE 290G 1FF290GXPCE705546**

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. 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.

### WEAR

Gear wear is indicated.

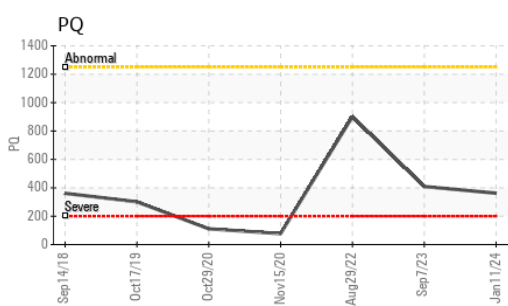
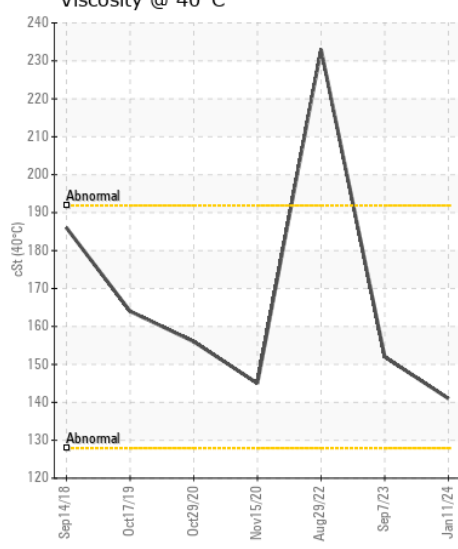
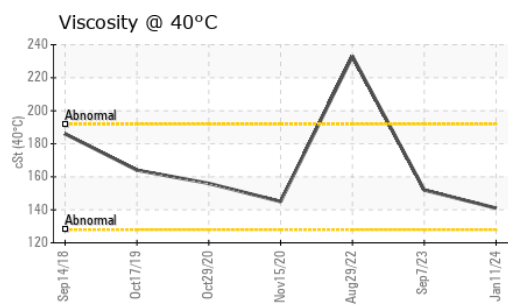
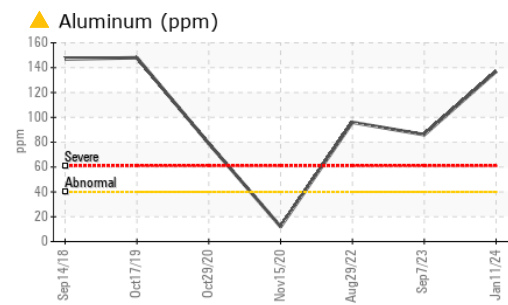
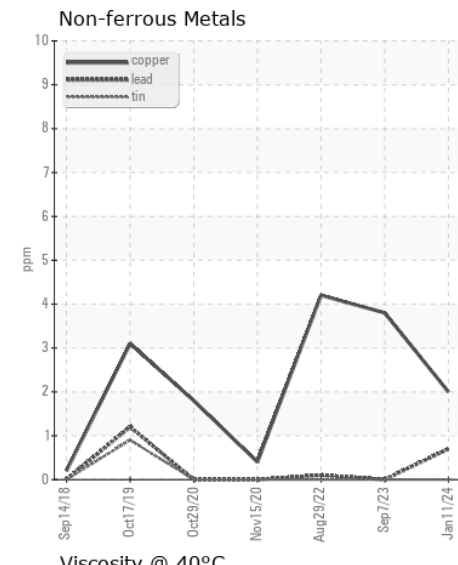
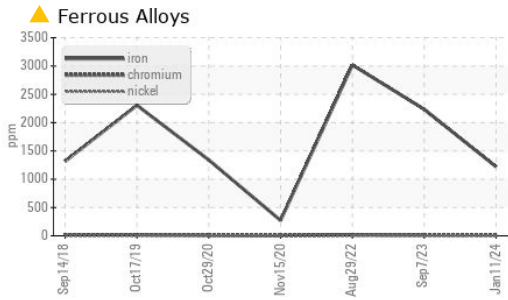
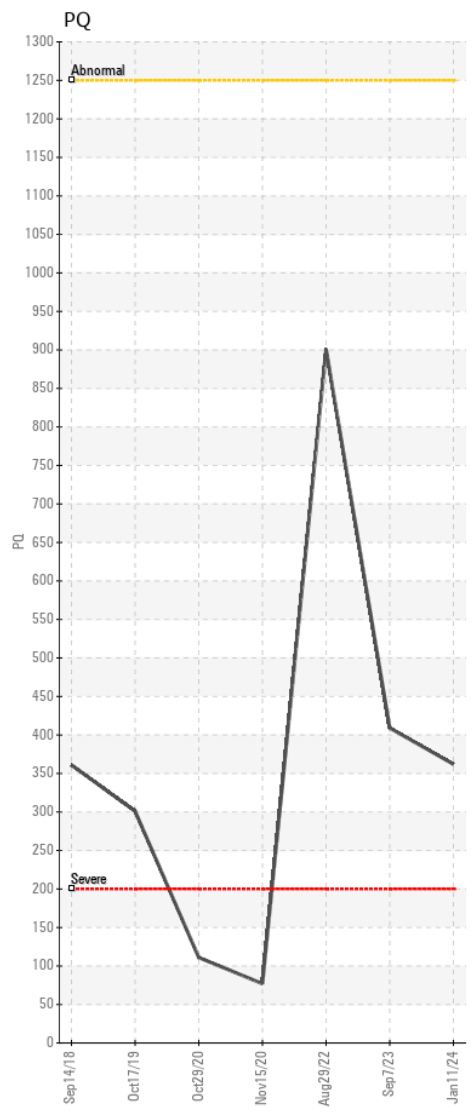
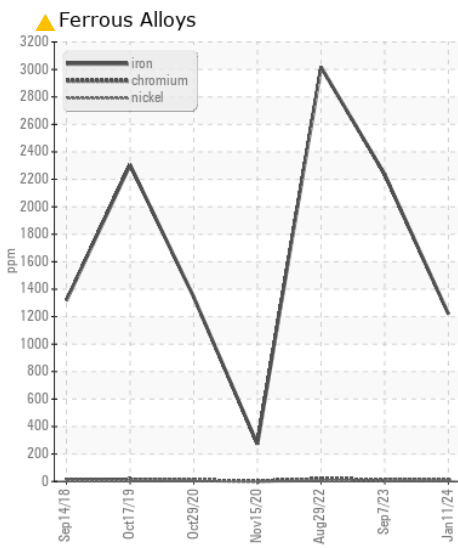
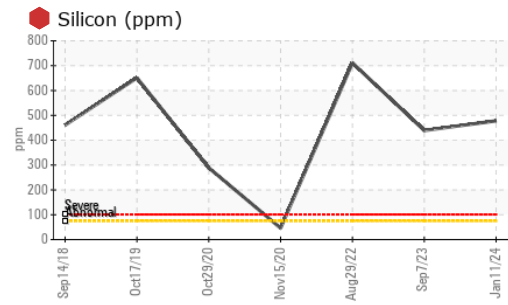
### CONTAMINATION

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

### FLUID CONDITION

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

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>JR0194476</b>	JR0182865	JR0138743
Sample Date		Client Info		<b>11 Jan 2024</b>	07 Sep 2023	29 Aug 2022
Machine Age	hrs	Client Info		<b>9612</b>	9127	8088
Oil Age	hrs	Client Info		<b>0</b>	0	0
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>N/A</b>	N/A	N/A
Filter Changed		Client Info		<b>N/A</b>	N/A	N/A
Sample Status				<b>SEVERE</b>	SEVERE	SEVERE
PQ		ASTM D8184	>1250	<b>362</b>	409	901
Iron	ppm	ASTM D5185m	>750	<b>▲ 1220</b>	● 2235	● 3017
Chromium	ppm	ASTM D5185m	>9	<b>8</b>	▲ 12	▲ 18
Nickel	ppm	ASTM D5185m	>10	<b>3</b>	3	3
Titanium	ppm	ASTM D5185m		<b>6</b>	7	9
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>40	<b>▲ 137</b>	▲ 86	▲ 96
Lead	ppm	ASTM D5185m	>15	<b>&lt;1</b>	0	<1
Copper	ppm	ASTM D5185m	>40	<b>2</b>	4	4
Tin	ppm	ASTM D5185m	>10	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
White Metal	scalar	*Visual	NONE	<b>MODER</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Silicon	ppm	ASTM D5185m	>75	<b>● 478</b>	● 439	● 711
Potassium	ppm	ASTM D5185m	>20	<b>36</b>	18	18
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
Sodium	ppm	ASTM D5185m	>51	<b>0</b>	5	5
Boron	ppm	ASTM D5185m		<b>31</b>	39	28
Barium	ppm	ASTM D5185m		<b>3</b>	0	<1
Molybdenum	ppm	ASTM D5185m		<b>1</b>	4	5
Manganese	ppm	ASTM D5185m		<b>8</b>	14	19
Magnesium	ppm	ASTM D5185m		<b>17</b>	7	18
Calcium	ppm	ASTM D5185m		<b>11</b>	186	22
Phosphorus	ppm	ASTM D5185m		<b>593</b>	534	437
Zinc	ppm	ASTM D5185m		<b>0</b>	17	11
Sulfur	ppm	ASTM D5185m		<b>22479</b>	21605	16349
Visc @ 40°C	cSt	ASTM D445		<b>141</b>	152	233



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0194476 **Received** : 12 Jan 2024  
**Lab Number** : 06059577 **Diagnosed** : 16 Jan 2024  
**Unique Number** : 10830959 **Diagnostician** : Jonathan Hester  
**Test Package** : CONST ( Additional Tests: PQ )

**JRE - GREENSBORO**  
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 US 27409  
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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)