



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

Machine Id  
**JOHN DEERE 470G 1FF470GXLJF236036**  
 Component  
**Right Swing Drive Gear Case**  
 Fluid  
**JOHN DEERE GL-5 80W90 (--- GAL)**

### RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>JR0213915</b>	JR0200809	JR0185163
Sample Date		Client Info		<b>20 May 2024</b>	22 Feb 2024	28 Aug 2023
Machine Age	hrs	Client Info		<b>5542</b>	5149	4913
Oil Age	hrs	Client Info		<b>393</b>	5149	1860
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Not Chngd</b>	Changed	Changed
Filter Changed		Client Info		<b>N/A</b>	N/A	N/A
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

### WEAR

All component wear rates are normal.

PQ		ASTM D8184		<b>52</b>	46	30
Iron	ppm	ASTM D5185m	>200	<b>67</b>	69	73
Chromium	ppm	ASTM D5185m	>10	<b>0</b>	0	<1
Nickel	ppm	ASTM D5185m	>10	<b>0</b>	<1	0
Titanium	ppm	ASTM D5185m		<b>0</b>	0	<1
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m		<b>&lt;1</b>	1	2
Lead	ppm	ASTM D5185m		<b>0</b>	<1	0
Copper	ppm	ASTM D5185m		<b>0</b>	<1	<1
Tin	ppm	ASTM D5185m		<b>0</b>	<1	<1
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	<1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

### CONTAMINATION

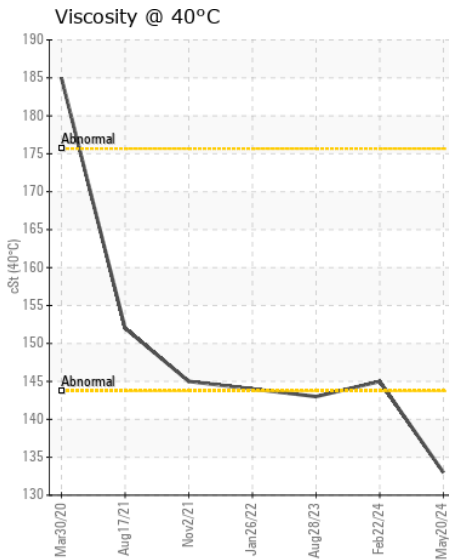
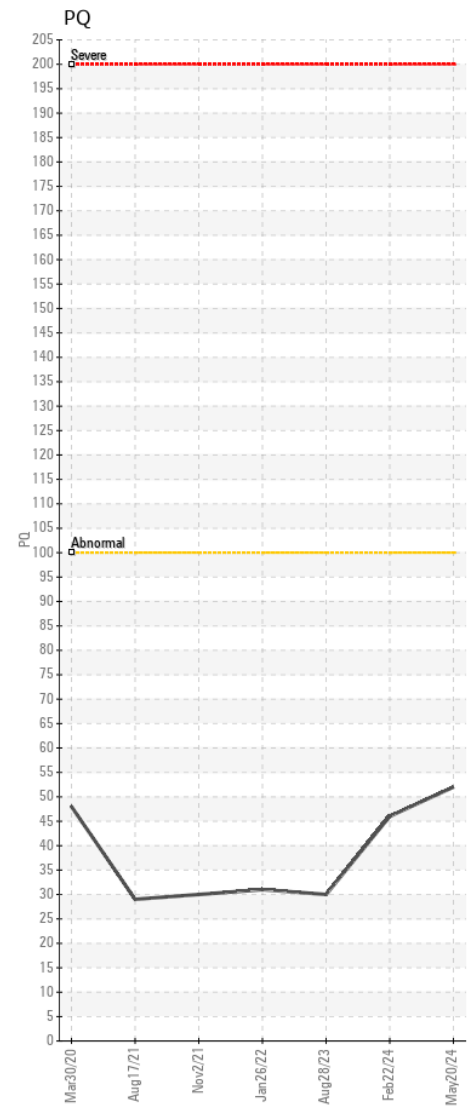
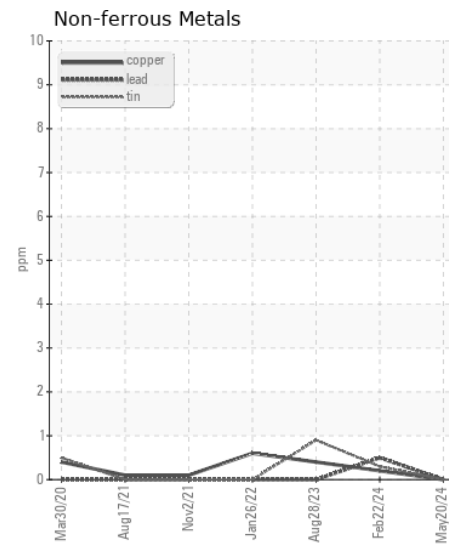
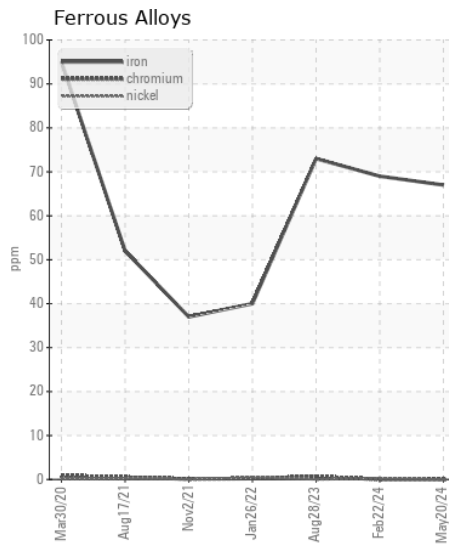
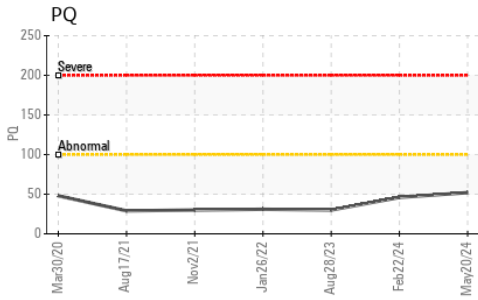
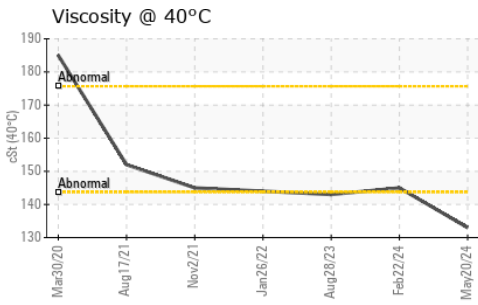
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m		<b>9</b>	6	10
Potassium	ppm	ASTM D5185m	>20	<b>0</b>	<1	0
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>LIGHT</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	>0.2	<b>NEG</b>	NEG	NEG

### FLUID CONDITION

The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		<b>&lt;1</b>	0	1
Boron	ppm	ASTM D5185m		<b>8</b>	23	36
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>0</b>	<1	<1
Manganese	ppm	ASTM D5185m		<b>0</b>	<1	1
Magnesium	ppm	ASTM D5185m		<b>1</b>	0	0
Calcium	ppm	ASTM D5185m		<b>33</b>	11	20
Phosphorus	ppm	ASTM D5185m		<b>595</b>	967	438
Zinc	ppm	ASTM D5185m		<b>15</b>	0	0
Sulfur	ppm	ASTM D5185m		<b>20795</b>	26301	22515
Visc @ 40°C	cSt	ASTM D445		<b>133</b>	145	143



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0213915 **Received** : 21 May 2024  
**Lab Number** : 06186469 **Tested** : 22 May 2024  
**Unique Number** : 11043221 **Diagnosed** : 23 May 2024 - Don Baldrige  
**Test Package** : CONST ( Additional Tests: PQ )

**JRE - GREENVILLE**  
 3604 HIGHWAY 264 E  
 GREENVILLE, NC  
 US 27834-5800

Contact: GREENVILLE SHOP  
 christopher.martin@jamesriverequipment.com

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)

T:  
F: