



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

Machine Id  
**JOHN DEERE 470G 1FF470GXLJF236036**  
 Component  
**Left Final Drive**  
 Fluid  
**JOHN DEERE GL-5 80W90 (--- GAL)**

### RECOMMENDATION

We advise that you check all areas where dirt can enter the system. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>JR0213914</b>	JR0200806	JR0117099
Sample Date		Client Info		<b>20 May 2024</b>	22 Feb 2024	26 Jan 2022
Machine Age	hrs	Client Info		<b>5542</b>	5149	3053
Oil Age	hrs	Client Info		<b>393</b>	5149	0
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	Not Changd
Sample Status				<b>ABNORMAL</b>	ABNORMAL	ABNORMAL

### WEAR

All component wear rates are normal.

PQ		ASTM D8184	>1250	<b>277</b>	216	145
Iron	ppm	ASTM D5185m	>750	<b>413</b>	513	385
Chromium	ppm	ASTM D5185m	>9	<b>4</b>	7	7
Nickel	ppm	ASTM D5185m	>10	<b>0</b>	<1	0
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	3	4
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>40	<b>16</b>	37	48
Lead	ppm	ASTM D5185m	>15	<b>0</b>	<1	<1
Copper	ppm	ASTM D5185m	>40	<b>0</b>	<1	1
Tin	ppm	ASTM D5185m	>10	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	<1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	LIGHT
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

### CONTAMINATION

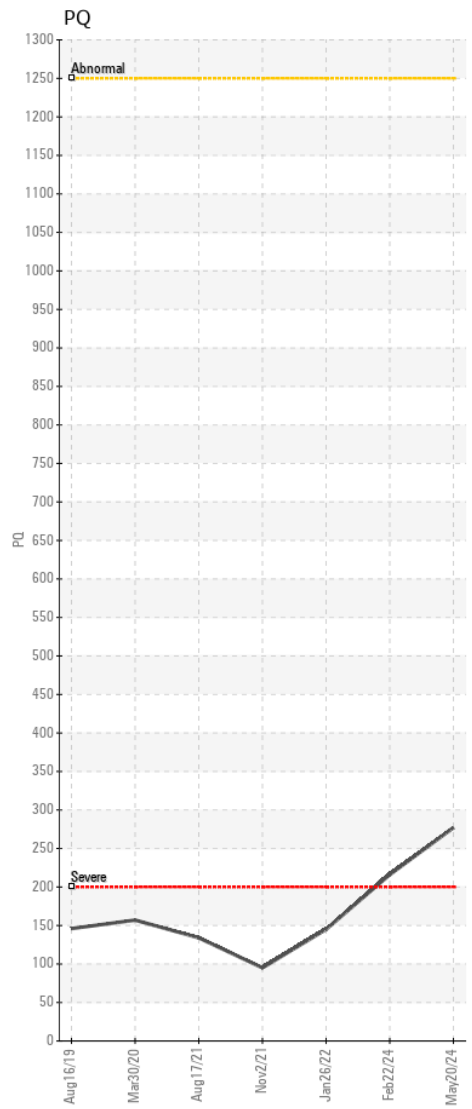
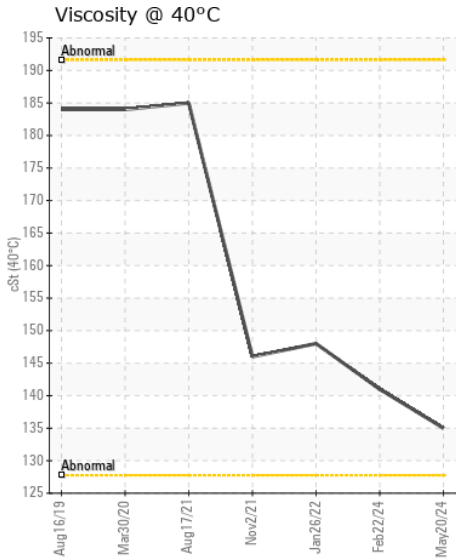
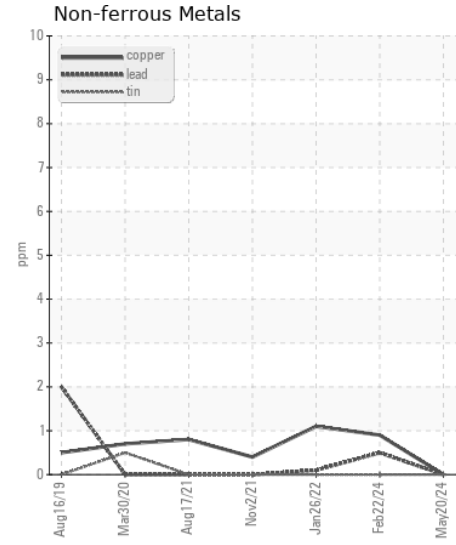
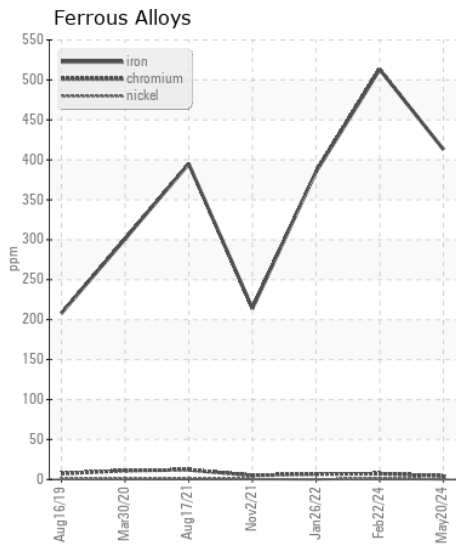
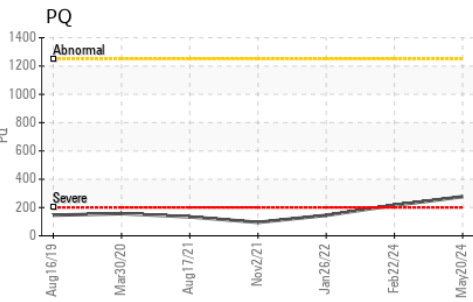
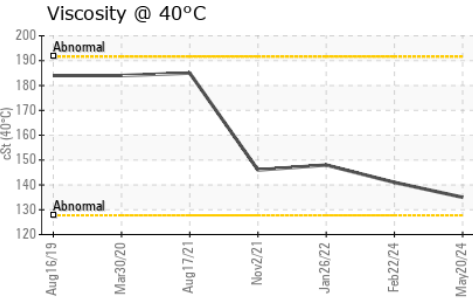
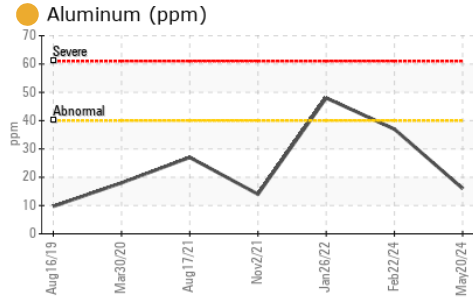
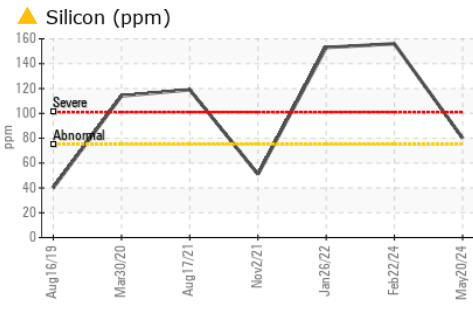
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Silicon	ppm	ASTM D5185m	>75	<b>80</b>	156	153
Potassium	ppm	ASTM D5185m	>20	<b>6</b>	12	8
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>5</b>	6	2
Boron	ppm	ASTM D5185m		<b>20</b>	156	10
Barium	ppm	ASTM D5185m		<b>&lt;1</b>	0	2
Molybdenum	ppm	ASTM D5185m		<b>0</b>	1	<1
Manganese	ppm	ASTM D5185m		<b>3</b>	6	5
Magnesium	ppm	ASTM D5185m		<b>2</b>	3	15
Calcium	ppm	ASTM D5185m		<b>35</b>	137	129
Phosphorus	ppm	ASTM D5185m		<b>586</b>	1076	343
Zinc	ppm	ASTM D5185m		<b>19</b>	0	26
Sulfur	ppm	ASTM D5185m		<b>19948</b>	23617	15639
Visc @ 40°C	cSt	ASTM D445		<b>135</b>	141	148



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0213914 **Received** : 21 May 2024  
**Lab Number** : 06186471 **Tested** : 22 May 2024  
**Unique Number** : 11043223 **Diagnosed** : 23 May 2024 - Don Baldrige  
**Test Package** : CONST ( Additional Tests: PQ )

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)

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

Contact: GREENVILLE SHOP  
 christopher.martin@jamesriverequipment.com

T:  
 F: