



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

Machine Id  
**JOHN DEERE 50G 1FF050GXCHH286613**

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. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>JR0210877</b>	JR0117376	JR0075872
Sample Date		Client Info		<b>19 Mar 2024</b>	11 Jan 2022	11 Jan 2021
Machine Age	hrs	Client Info		<b>2615</b>	2187	1583
Oil Age	hrs	Client Info		<b>0</b>	0	1583
Filter Age	hrs	Client Info		<b>0</b>	0	1583
Oil Changed		Client Info		<b>N/A</b>	Changed	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.

PQ		ASTM D8184	>1250	<b>321</b>	191	270
Iron	ppm	ASTM D5185m	>750	<b>606</b>	402	415
Chromium	ppm	ASTM D5185m	>9	<b>13</b>	12	18
Nickel	ppm	ASTM D5185m	>10	<b>5</b>	5	4
Titanium	ppm	ASTM D5185m		<b>3</b>	2	2
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>40	<b>30</b>	14	16
Lead	ppm	ASTM D5185m	>15	<b>0</b>	0	0
Copper	ppm	ASTM D5185m	>40	<b>4</b>	2	2
Tin	ppm	ASTM D5185m	>10	<b>0</b>	<1	0
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	LIGHT	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

### CONTAMINATION

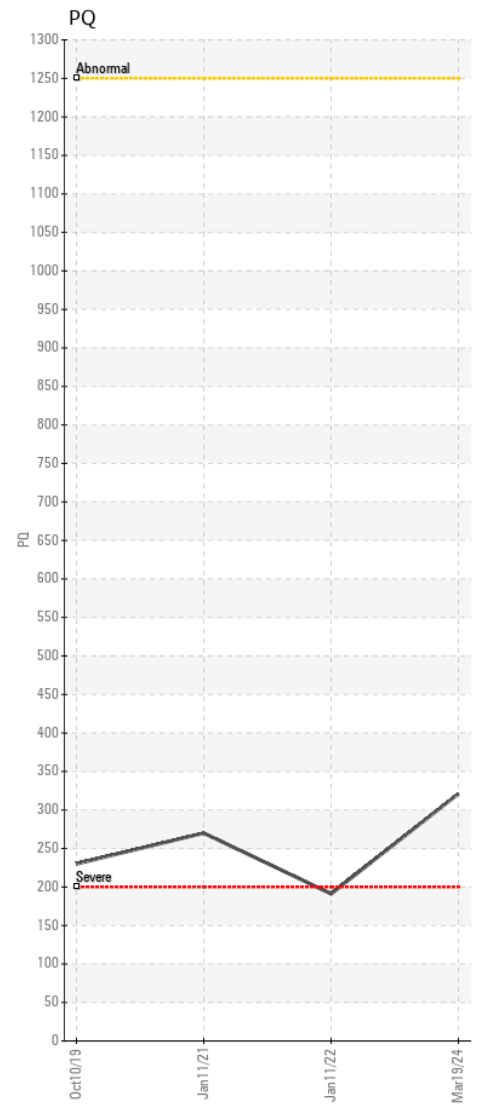
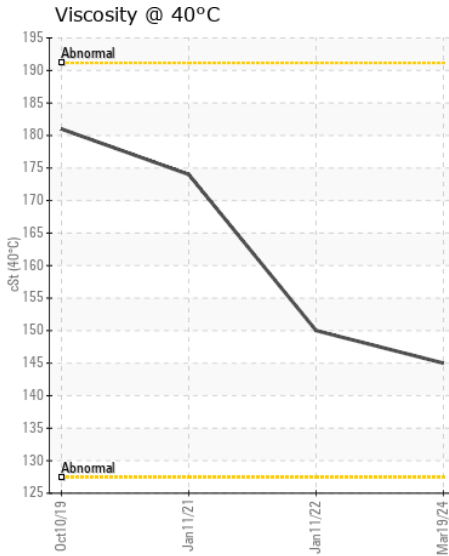
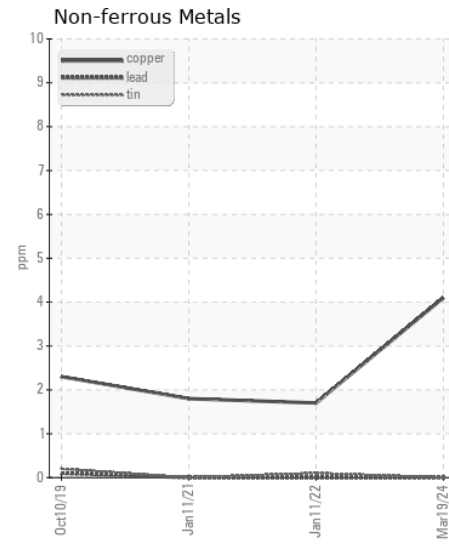
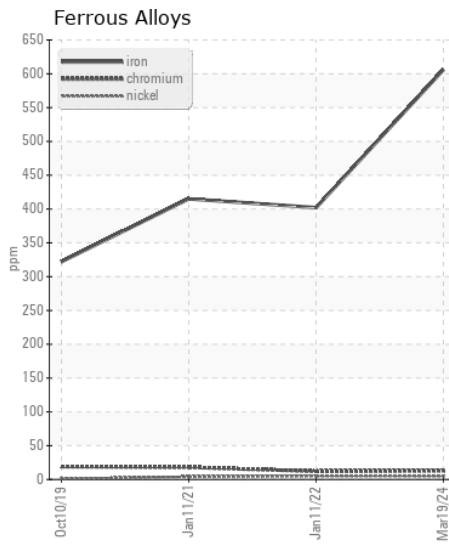
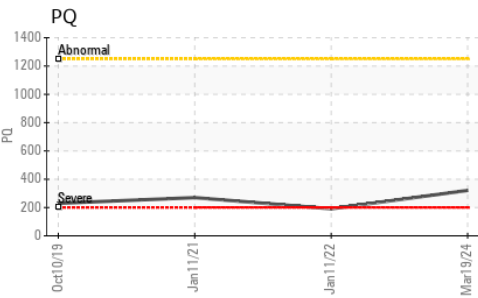
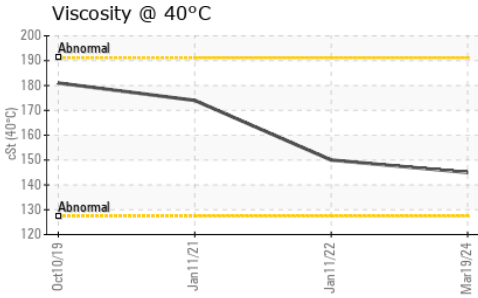
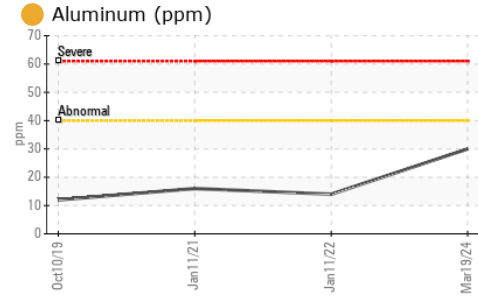
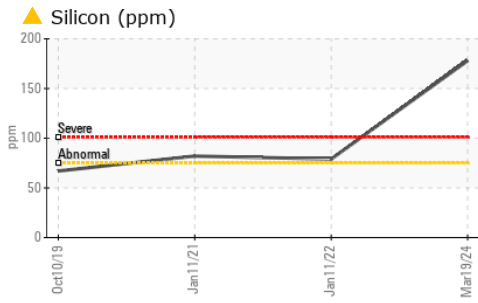
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Silicon	ppm	ASTM D5185m	>75	<b>178</b>	79	82
Potassium	ppm	ASTM D5185m	>20	<b>0</b>	0	16
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>1</b>	2	3
Boron	ppm	ASTM D5185m		<b>4</b>	8	26
Barium	ppm	ASTM D5185m		<b>2</b>	2	7
Molybdenum	ppm	ASTM D5185m		<b>11</b>	<1	0
Manganese	ppm	ASTM D5185m		<b>10</b>	8	12
Magnesium	ppm	ASTM D5185m		<b>2</b>	3	4
Calcium	ppm	ASTM D5185m		<b>9</b>	41	16
Phosphorus	ppm	ASTM D5185m		<b>332</b>	338	394
Zinc	ppm	ASTM D5185m		<b>49</b>	79	117
Sulfur	ppm	ASTM D5185m		<b>20661</b>	16429	11709
Visc @ 40°C	cSt	ASTM D445		<b>145</b>	150	174



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0210877 **Received** : 20 Mar 2024  
**Lab Number** : 06124400 **Tested** : 21 Mar 2024  
**Unique Number** : 10938551 **Diagnosed** : 23 Mar 2024 - Don Baldrige  
**Test Package** : CONST ( Additional Tests: PQ )

**JRE - MANASSAS PARK**  
 9107 OWENS DRIVE  
 MANASSAS PARK, VA  
 US 20111

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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)