



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



Machine Id  
**JOHN DEERE 210G 1FF210GXPMF529147**  
Component  
**Right Final Drive**  
Fluid  
**GEAR OIL SAE 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>JR0188472</b>	JR0172161	JR0155234
Sample Date		Client Info		<b>08 Jan 2024</b>	07 Jul 2023	27 Jan 2023
Machine Age	hrs	Client Info		<b>3171</b>	2535	1944
Oil Age	hrs	Client Info		<b>2225</b>	2535	0
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Not Changd</b>	Not Changd	N/A
Filter Changed		Client Info		<b>N/A</b>	N/A	N/A
Sample Status				<b>ABNORMAL</b>	ABNORMAL	NORMAL

### WEAR

All component wear rates are normal.

PQ		ASTM D8184	>1250	<b>199</b>	116	95
Iron	ppm	ASTM D5185m	>750	<b>601</b>	427	594
Chromium	ppm	ASTM D5185m	>9	<b>7</b>	5	8
Nickel	ppm	ASTM D5185m	>10	<b>&lt;1</b>	<1	<1
Titanium	ppm	ASTM D5185m		<b>2</b>	2	1
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>40	<b>▲ 42</b>	▲ 36	13
Lead	ppm	ASTM D5185m	>15	<b>0</b>	1	<1
Copper	ppm	ASTM D5185m	>40	<b>2</b>	1	2
Tin	ppm	ASTM D5185m	>10	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	MODER
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

### CONTAMINATION

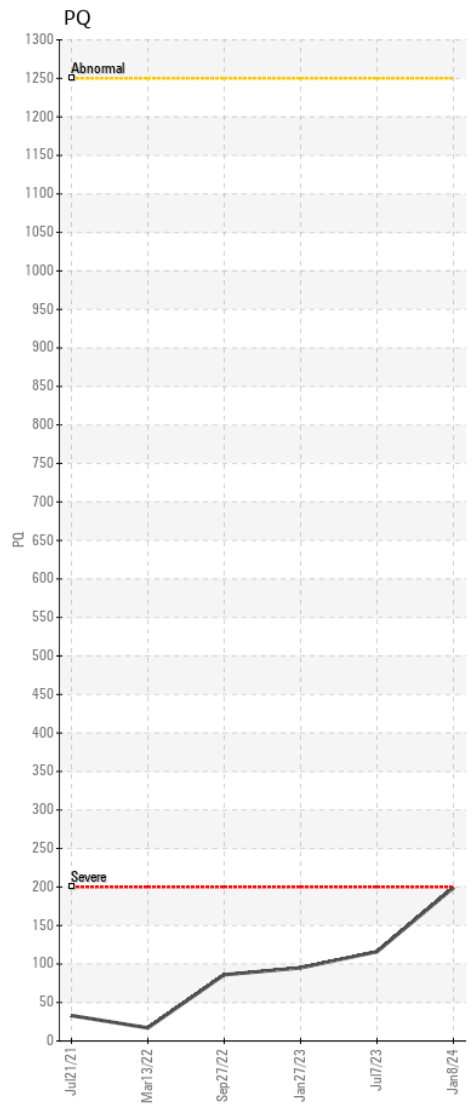
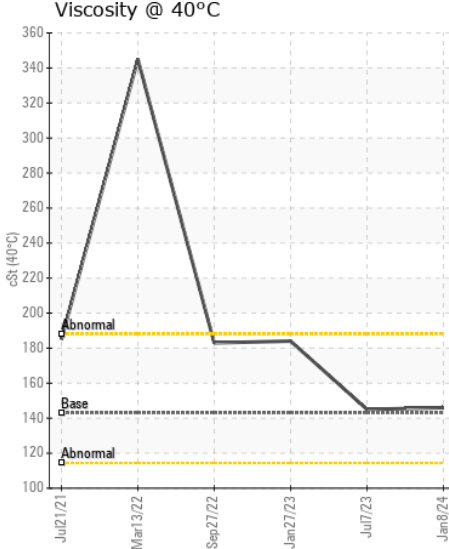
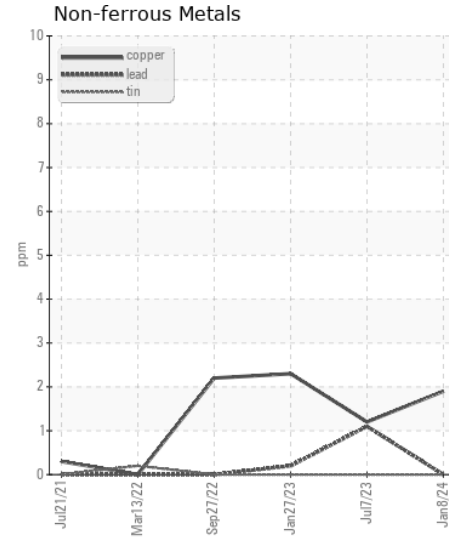
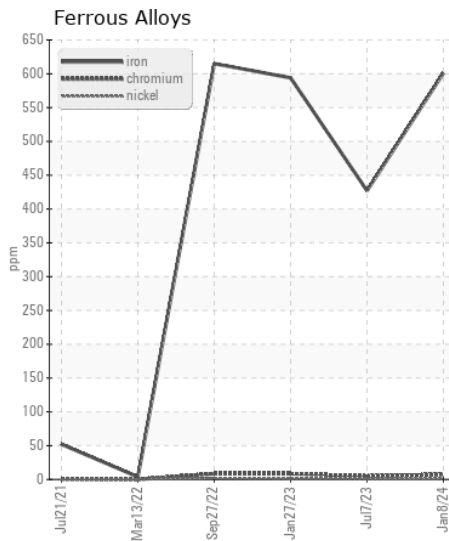
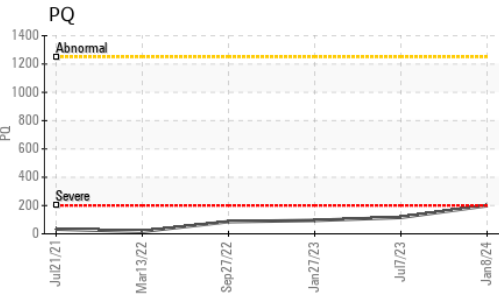
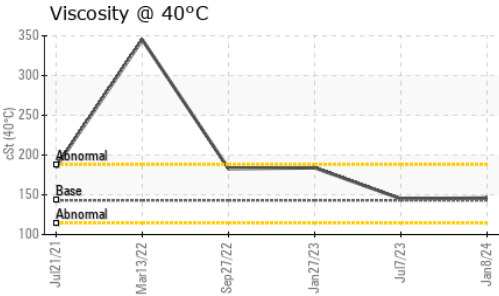
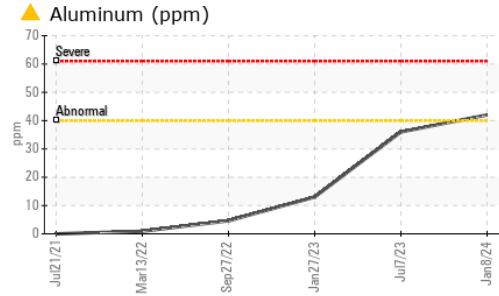
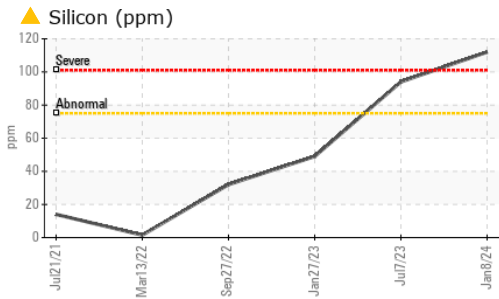
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Silicon	ppm	ASTM D5185m	>75	<b>▲ 112</b>	▲ 94	49
Potassium	ppm	ASTM D5185m	>20	<b>6</b>	8	7
Water		WC Method	>0.075	<b>NEG</b>	NEG	NEG
Silt	scalar	*Visual	NONE	<b>LIGHT</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	>170	<b>7</b>	7	2
Boron	ppm	ASTM D5185m	400	<b>18</b>	7	47
Barium	ppm	ASTM D5185m	200	<b>2</b>	0	8
Molybdenum	ppm	ASTM D5185m	12	<b>7</b>	0	<1
Manganese	ppm	ASTM D5185m		<b>8</b>	6	10
Magnesium	ppm	ASTM D5185m	12	<b>30</b>	4	3
Calcium	ppm	ASTM D5185m	150	<b>46</b>	7	27
Phosphorus	ppm	ASTM D5185m	1650	<b>419</b>	328	502
Zinc	ppm	ASTM D5185m	125	<b>41</b>	0	57
Sulfur	ppm	ASTM D5185m	22500	<b>18509</b>	18199	16997
Visc @ 40°C	cSt	ASTM D445	143	<b>146</b>	145	184



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0188472 **Received** : 17 Jan 2024  
**Lab Number** : 06063048 **Diagnosed** : 18 Jan 2024  
**Unique Number** : 10834430 **Diagnostician** : Sean Felton  
**Test Package** : CONST ( Additional Tests: PQ )

**JRE - CHARLOTTE**  
 9550 STATESVILLE ROAD  
 CHARLOTTE, NC  
 US 28269  
 Contact: CHARLOTTE SHOP  
 myoung@jamesriverequipment.com  
 T: (704)597-0211  
 F: (704)596-6198

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)