



WEAR  
CONTAMINATION  
FLUID CONDITION

**ATTENTION**  
**ABNORMAL**  
**NORMAL**



Area

**[7937]**

Machine Id

**JOHN DEERE 210G 3601411 (S/N 520918)**

Component

**Left 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. ( Customer Sample Comment: 7937 )

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>JR0130629</b>	JR0033740	JR0078895
Sample Date		Client Info		<b>24 May 2022</b>	13 Jan 2022	01 Apr 2021
Machine Age	hrs	Client Info		<b>10484</b>	9975	9036
Oil Age	hrs	Client Info		<b>6480</b>	1000	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	ABNORMAL

### WEAR

All component wear rates are normal for time on oil..

PQ		ASTM D8184	>1250	<b>73</b>	102	148
Iron	ppm	ASTM D5185m	>750	<b>2044</b>	1935	▲ 1058
Chromium	ppm	ASTM D5185m	>9	<b>15</b>	14	▲ 9
Nickel	ppm	ASTM D5185m		<b>2</b>	2	2
Titanium	ppm	ASTM D5185m		<b>2</b>	2	2
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>40	● <b>19</b>	● 21	● 15
Lead	ppm	ASTM D5185m	>15	<b>0</b>	<1	0
Copper	ppm	ASTM D5185m	>40	<b>2</b>	2	1
Tin	ppm	ASTM D5185m		<b>0</b>	0	0
Vanadium	ppm	ASTM D5185m		<b>0</b>	<1	<1
White Metal	scalar	*Visual	NONE	<b>LIGHT</b>	LIGHT	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

### CONTAMINATION

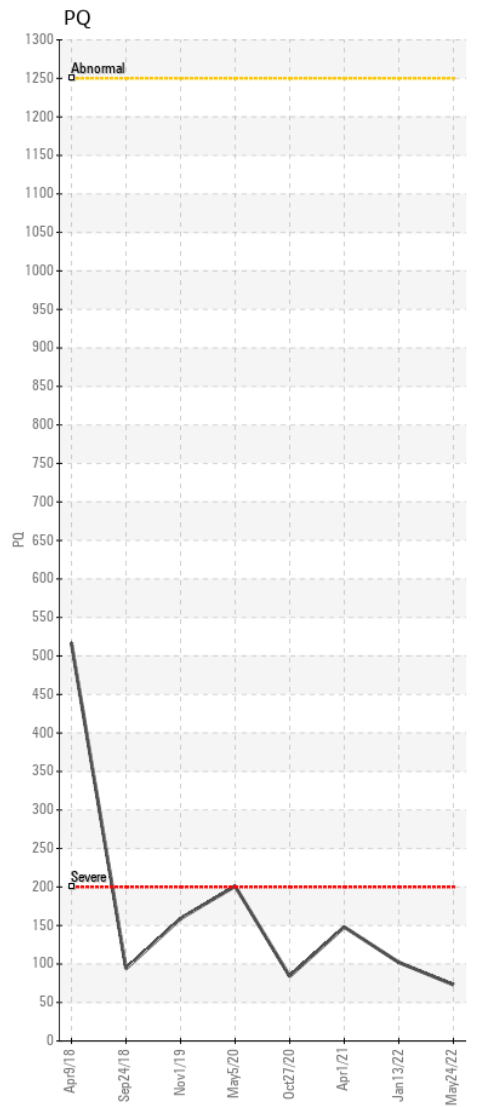
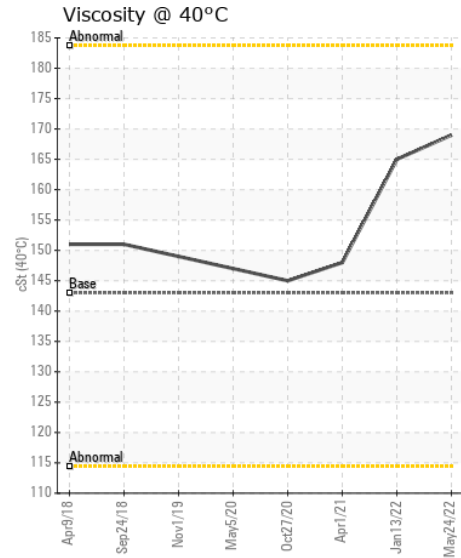
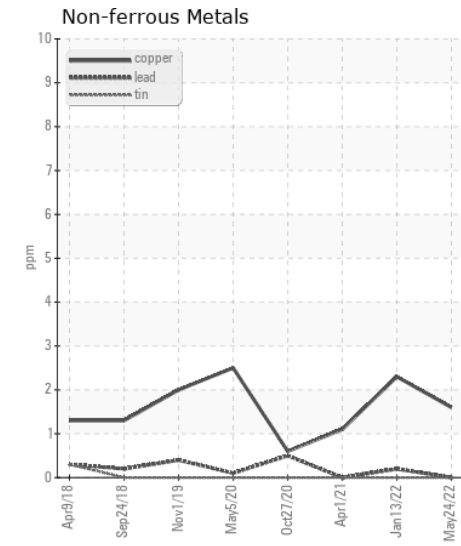
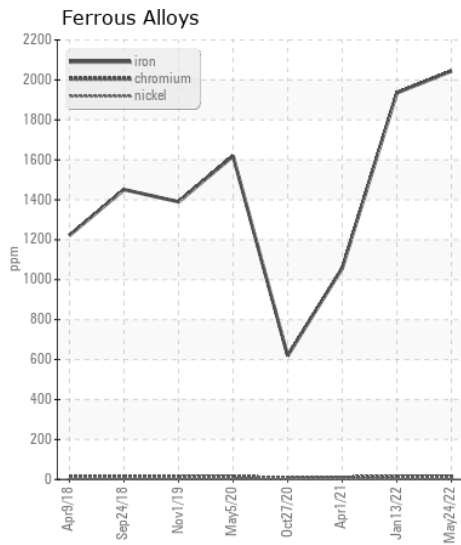
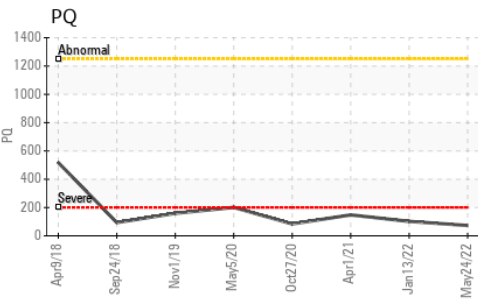
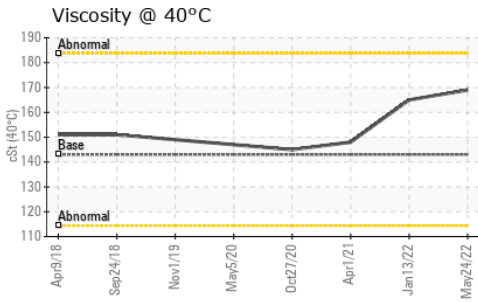
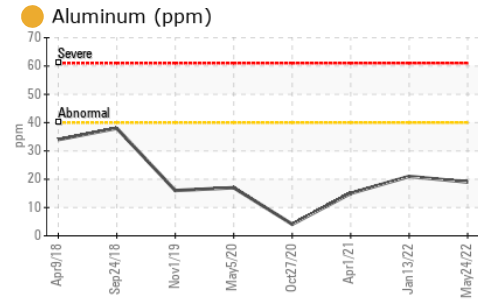
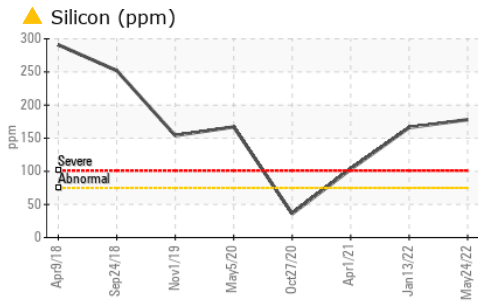
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Silicon	ppm	ASTM D5185m	>75	▲ <b>178</b>	▲ 166	▲ 103
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	3	3
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	>170	<b>2</b>	0	2
Boron	ppm	ASTM D5185m	400	<b>77</b>	67	62
Barium	ppm	ASTM D5185m	200	<b>0</b>	0	<1
Molybdenum	ppm	ASTM D5185m	12	<b>&lt;1</b>	1	<1
Manganese	ppm	ASTM D5185m		<b>15</b>	13	8
Magnesium	ppm	ASTM D5185m	12	<b>&lt;1</b>	1	1
Calcium	ppm	ASTM D5185m	150	<b>14</b>	19	17
Phosphorus	ppm	ASTM D5185m	1650	<b>1546</b>	1618	1574
Zinc	ppm	ASTM D5185m	125	<b>10</b>	2	9
Sulfur	ppm	ASTM D5185m	22500	<b>23620</b>	23102	20818
Visc @ 40°C	cSt	ASTM D445	143	<b>169</b>	165	148



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0130629 **Received** : 26 May 2022  
**Lab Number** : 05555124 **Tested** : 27 May 2022  
**Unique Number** : 9994512 **Diagnosed** : 29 May 2022 - Don Baldrige  
**Test Package** : CONST ( Additional Tests: PQ )

**JRE - NEW BERN**  
 3816 MARTIN LUTHER KING BLVD  
 NEW BERN, NC  
 US 28562  
 Contact: JEFF BROWN  
 jeff.brown@jamesriverequipment.com  
 T: (252)638-5838  
 F: (252)638-2949

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)