



**James River  
Equipment**

**OIL ANALYSIS REPORT**

WEAR  
CONTAMINATION  
FLUID CONDITION

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



Machine Id  
**JOHN DEERE 210G 1FF210GXCMF529131**  
Component  
**Pump Drive**  
Fluid  
**{not provided} (--- GAL)**

**RECOMMENDATION**

We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>JR0188514</b>	JR05678142	JR0129042
Sample Date		Client Info		<b>05 Jan 2024</b>	26 Oct 2022	20 May 2022
Machine Age	hrs	Client Info		<b>4262</b>	0	1529
Oil Age	hrs	Client Info		<b>2143</b>	0	500
Filter Age	hrs	Client Info		<b>0</b>	0	500
Oil Changed		Client Info		<b>Changed</b>	N/A	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		<b>30</b>	14	36
Iron	ppm	ASTM D5185m	>151	<b>85</b>	140	97
Chromium	ppm	ASTM D5185m	>11	<b>0</b>	3	2
Nickel	ppm	ASTM D5185m	>10	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m		<b>0</b>	2	<1
Silver	ppm	ASTM D5185m		<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185m	>21	<b>▲ 14</b>	▲ 49	▲ 26
Lead	ppm	ASTM D5185m	>51	<b>0</b>	0	0
Copper	ppm	ASTM D5185m	>51	<b>0</b>	0	<1
Tin	ppm	ASTM D5185m	>4	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185m		<b>0</b>	<1	<1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	LIGHT
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

**CONTAMINATION**

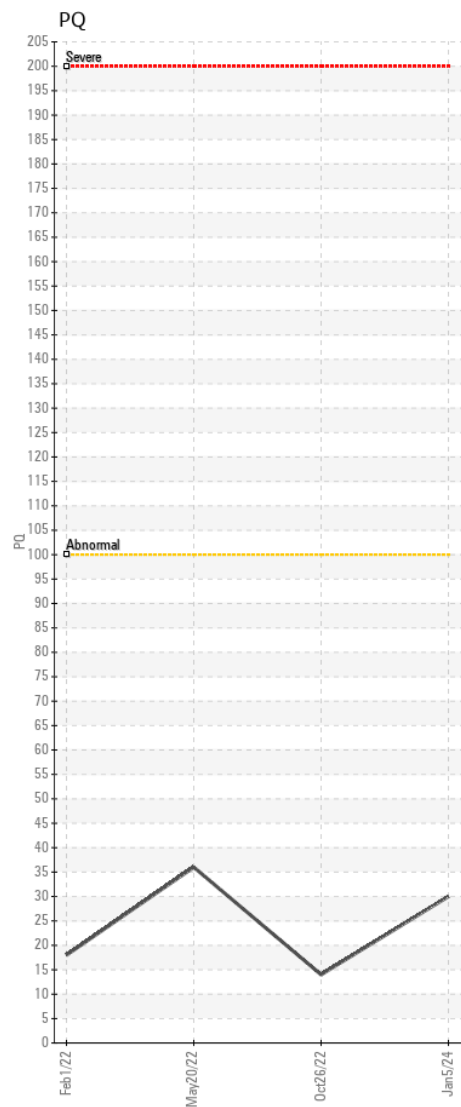
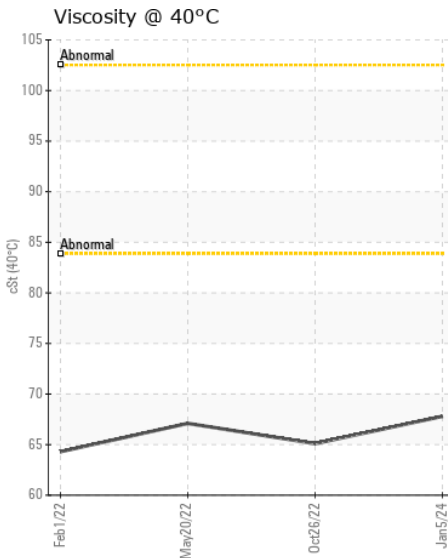
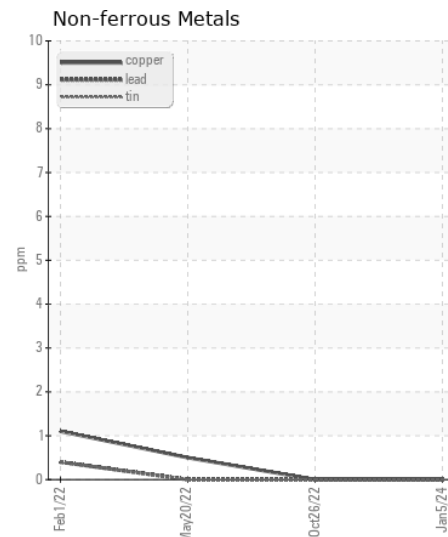
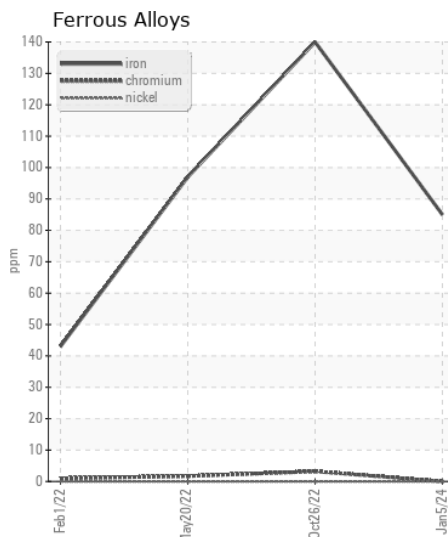
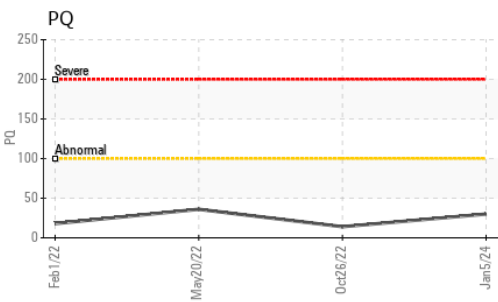
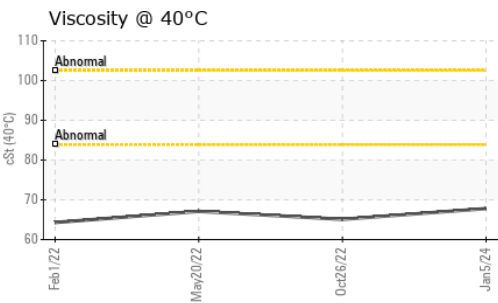
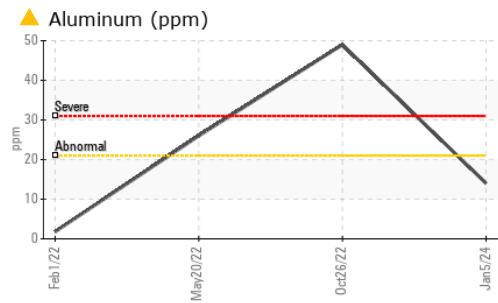
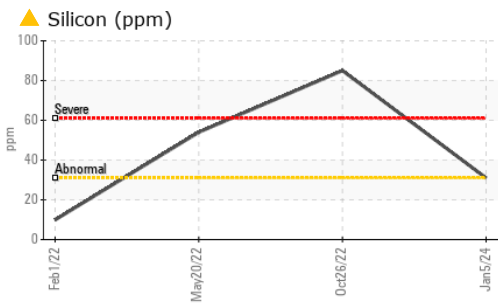
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Silicon	ppm	ASTM D5185m	>31	<b>▲ 31</b>	▲ 85	▲ 54
Potassium	ppm	ASTM D5185m	>20	<b>1</b>	3	3
Water		WC Method	>0.1	<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	>0.1	<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>3</b>	4	2
Boron	ppm	ASTM D5185m		<b>233</b>	252	360
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>213</b>	222	266
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	2	2
Magnesium	ppm	ASTM D5185m		<b>691</b>	754	791
Calcium	ppm	ASTM D5185m		<b>1252</b>	1762	1791
Phosphorus	ppm	ASTM D5185m		<b>851</b>	915	1114
Zinc	ppm	ASTM D5185m		<b>944</b>	1140	1238
Sulfur	ppm	ASTM D5185m		<b>2963</b>	3894	4113
Visc @ 40°C	cSt	ASTM D445		<b>67.8</b>	65.1	67.1



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0188514 **Received** : 10 Jan 2024  
**Lab Number** : 06056910 **Diagnosed** : 11 Jan 2024  
**Unique Number** : 10822859 **Diagnostician** : Sean Felton  
**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)

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