



# OIL ANALYSIS REPORT

WEAR  
CONTAMINATION  
FLUID CONDITION

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



Area  
**[147699]**  
Machine Id  
**JOHN DEERE 210GLC 1FF210GXPNF529831**  
Component  
**Left Propel Gearbox**  
Fluid  
**JOHN DEERE HY-GARD HYD/TRANS (2 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>LEC0047331</b>	LEC0044255	LEC0041748
Sample Date		Client Info		<b>21 Feb 2024</b>	18 Oct 2023	31 May 2023
Machine Age	hrs	Client Info		<b>2329</b>	1724	1113
Oil Age	hrs	Client Info		<b>605</b>	611	1113
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>N/A</b>	N/A	None
Sample Status				<b>ABNORMAL</b>	ATTENTION	ATTENTION

## WEAR

All component wear rates are normal.

PQ		ASTM D8184		<b>241</b>	86	94
Iron	ppm	ASTM D5185m	>1250	<b>390</b>	145	179
Chromium	ppm	ASTM D5185m	>10	<b>5</b>	2	3
Nickel	ppm	ASTM D5185m	>10	<b>1</b>	<1	0
Titanium	ppm	ASTM D5185m		<b>3</b>	<1	<1
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m		<b>47</b>	3	0
Lead	ppm	ASTM D5185m		<b>1</b>	<1	0
Copper	ppm	ASTM D5185m		<b>1</b>	1	1
Tin	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	MODER	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

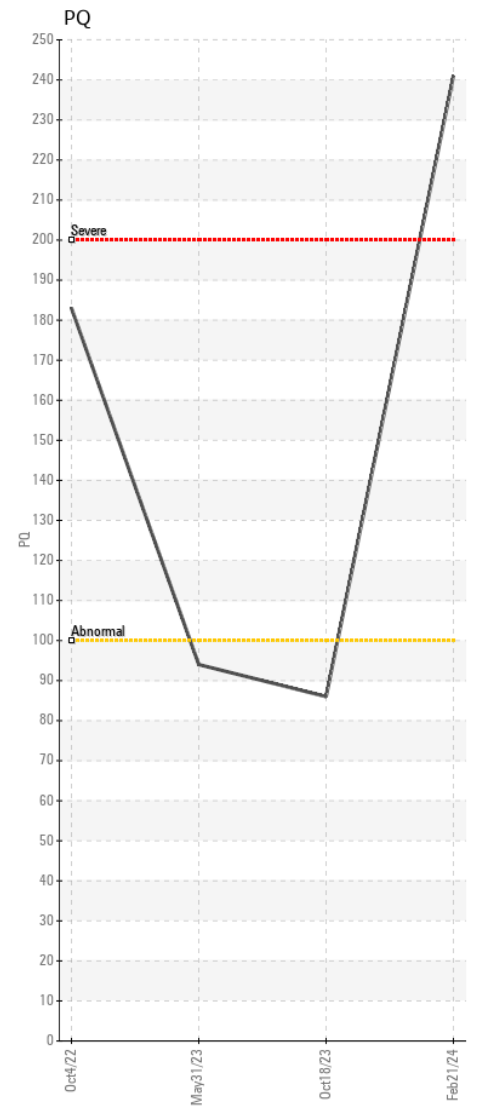
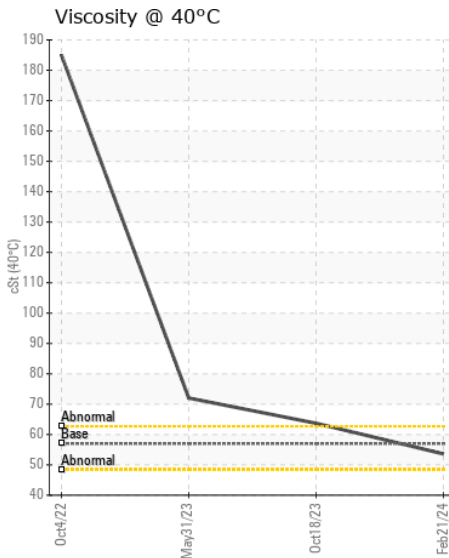
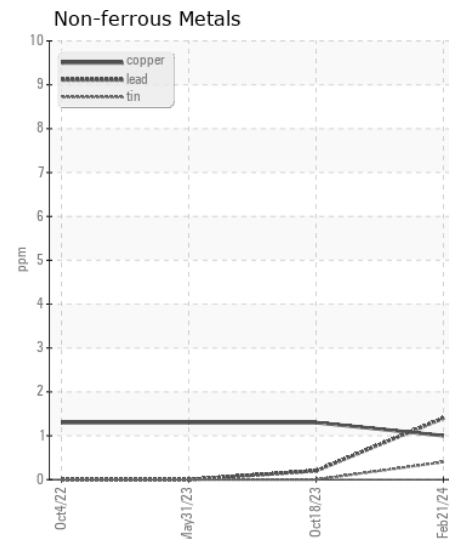
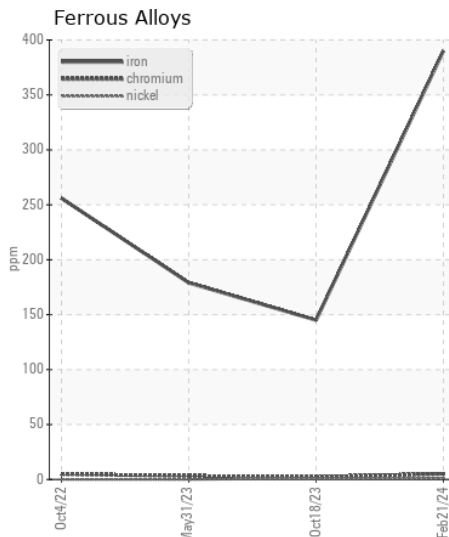
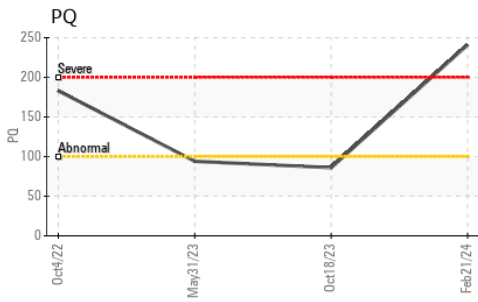
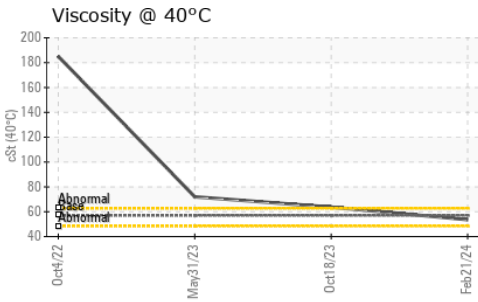
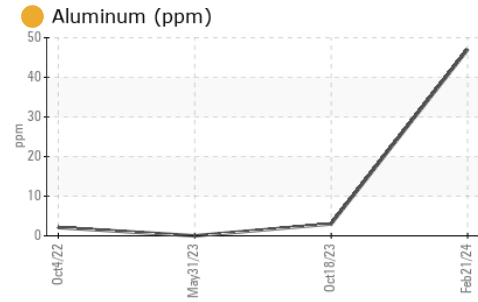
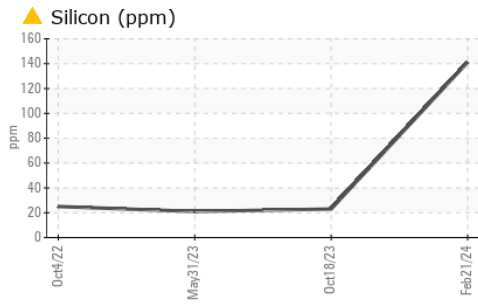
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Silicon	ppm	ASTM D5185m		<b>141</b>	23	21
Potassium	ppm	ASTM D5185m	>20	<b>13</b>	3	0
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Silt	scalar	*Visual	NONE	<b>MODER</b>	NONE	MODER
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	>0.2	<b>NEG</b>	NEG	NEG

## FLUID CONDITION

The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		<b>2</b>	0	<1
Boron	ppm	ASTM D5185m	6	<b>6</b>	17	45
Barium	ppm	ASTM D5185m	0	<b>0</b>	11	0
Molybdenum	ppm	ASTM D5185m	0	<b>2</b>	4	3
Manganese	ppm	ASTM D5185m		<b>5</b>	2	3
Magnesium	ppm	ASTM D5185m	145	<b>104</b>	101	68
Calcium	ppm	ASTM D5185m	3570	<b>3357</b>	3141	2438
Phosphorus	ppm	ASTM D5185m	1290	<b>969</b>	1047	791
Zinc	ppm	ASTM D5185m	1640	<b>1218</b>	1178	817
Sulfur	ppm	ASTM D5185m		<b>3671</b>	5193	6622
Visc @ 40°C	cSt	ASTM D445	57.0	<b>53.6</b>	63.7	72.0



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : LEC0047331 **Received** : 26 Feb 2024  
**Lab Number** : 06100379 **Tested** : 27 Feb 2024  
**Unique Number** : 10898609 **Diagnosed** : 28 Feb 2024 - Sean Felton  
**Test Package** : CONST ( Additional Tests: PQ )

**LESLIE EQUIPMENT COMPANY**  
 105 TENNIS CENTER DR.  
 MARIETTA, OH  
 US 45750-9765  
 Contact: LEANNE KENDALL  
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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)

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