



# OIL ANALYSIS REPORT

WEAR  
CONTAMINATION  
FLUID CONDITION

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



Area  
**Store 9 - Marietta**  
Machine Id  
**JOHN DEERE 210G 1FF210GXTNF530413**  
Component  
**Right Propel Gearbox**  
Fluid  
**GEAR OIL SAE 90 (2 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>LEC0049041</b>	LEC0043831	LEC0041802
Sample Date		Client Info		<b>21 May 2024</b>	15 Aug 2023	12 May 2023
Machine Age	hrs	Client Info		<b>1964</b>	1184	723
Oil Age	hrs	Client Info		<b>500</b>	661	233
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Not Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>Changed</b>	None	Changed
Sample Status				<b>ABNORMAL</b>	ABNORMAL	ABNORMAL

## WEAR

All component wear rates are normal.

PQ		ASTM D8184		<b>287</b>	579	193
Iron	ppm	ASTM D5185m	>1250	<b>838</b>	652	515
Chromium	ppm	ASTM D5185m	>10	<b>6</b>	6	6
Nickel	ppm	ASTM D5185m	>10	<b>&lt;1</b>	<1	1
Titanium	ppm	ASTM D5185m		<b>4</b>	2	5
Silver	ppm	ASTM D5185m		<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185m		<b>44</b>	32	84
Lead	ppm	ASTM D5185m		<b>0</b>	0	<1
Copper	ppm	ASTM D5185m		<b>&lt;1</b>	<1	1
Tin	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

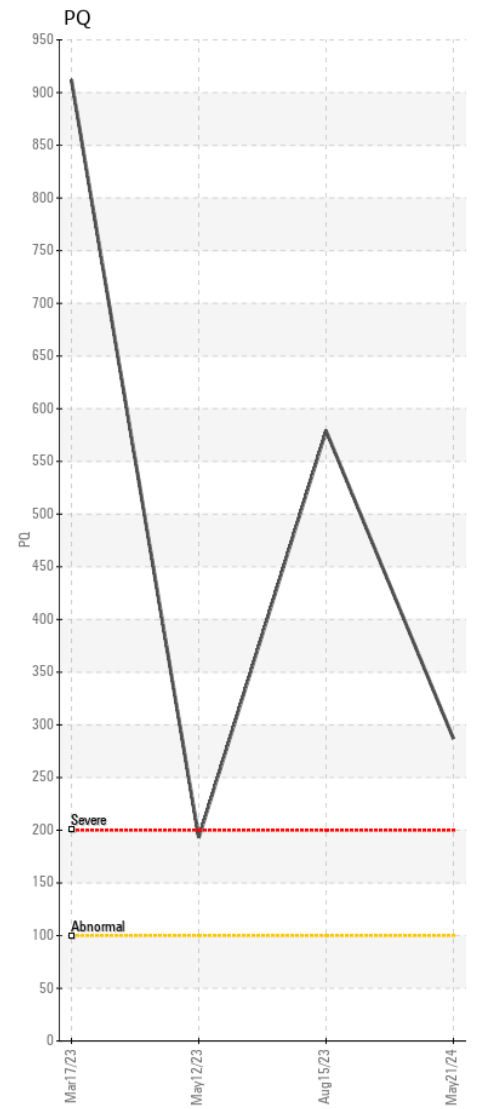
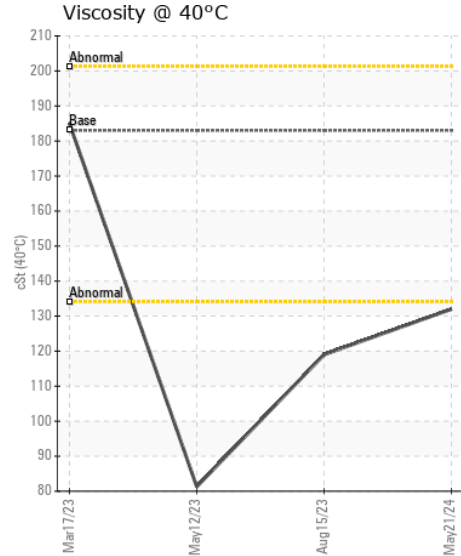
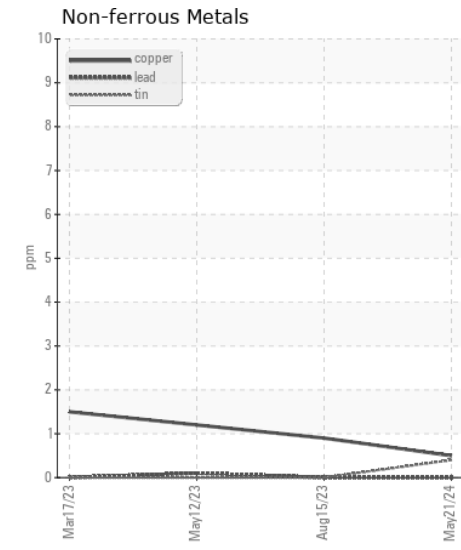
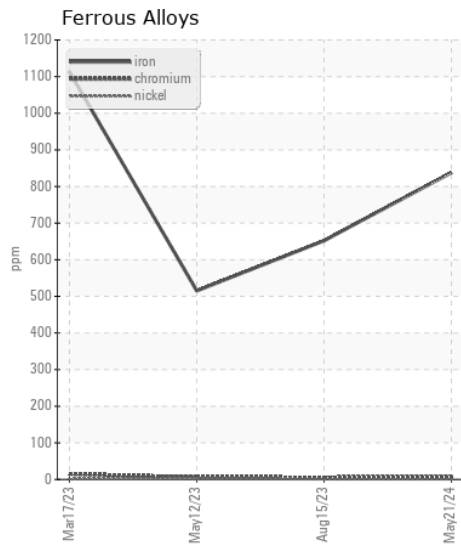
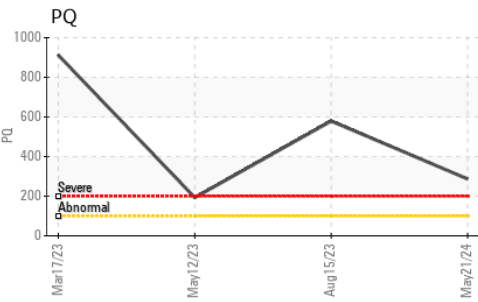
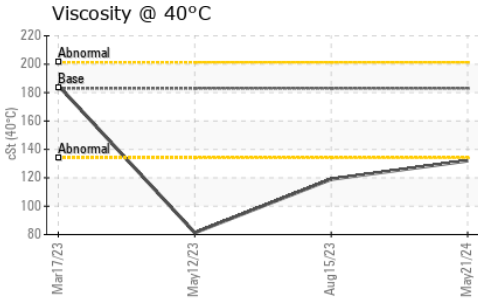
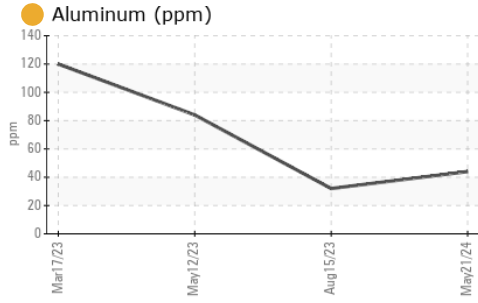
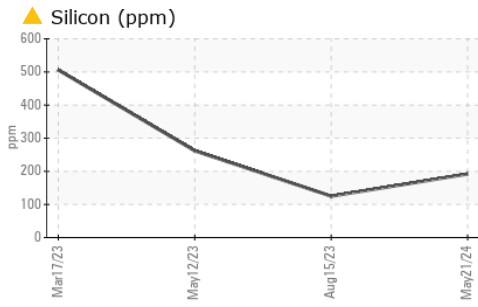
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Silicon	ppm	ASTM D5185m		<b>▲ 192</b>	▲ 125	▲ 262
Potassium	ppm	ASTM D5185m	>20	<b>14</b>	11	27
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Silt	scalar	*Visual	NONE	<b>LIGHT</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>4</b>	2	0
Boron	ppm	ASTM D5185m	400	<b>178</b>	111	46
Barium	ppm	ASTM D5185m	200	<b>&lt;1</b>	0	3
Molybdenum	ppm	ASTM D5185m	12	<b>4</b>	<1	2
Manganese	ppm	ASTM D5185m		<b>8</b>	7	7
Magnesium	ppm	ASTM D5185m	12	<b>10</b>	19	77
Calcium	ppm	ASTM D5185m	150	<b>168</b>	516	2500
Phosphorus	ppm	ASTM D5185m	1650	<b>1087</b>	847	871
Zinc	ppm	ASTM D5185m	125	<b>77</b>	249	850
Sulfur	ppm	ASTM D5185m	22500	<b>21195</b>	17698	7332
Visc @ 40°C	cSt	ASTM D445	183	<b>132</b>	119	81.3



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : LEC0049041 **Received** : 31 May 2024  
**Lab Number** : 06197028 **Tested** : 03 Jun 2024  
**Unique Number** : 11059151 **Diagnosed** : 04 Jun 2024 - 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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