



# OIL ANALYSIS REPORT

WEAR  
CONTAMINATION  
FLUID CONDITION

**ATTENTION**  
**ABNORMAL**  
**ATTENTION**



Area  
**Store 9 - Marietta**  
Machine Id  
**JOHN DEERE 210G 1FF210GXANF530002**  
Component  
**Right Propel Gearbox**  
Fluid  
**JOHN DEERE GL-5 80W90 (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		LEC0043700	LEC0037995	---
Sample Date		Client Info		09 Aug 2023	20 Dec 2022	---
Machine Age	hrs	Client Info		1186	612	---
Oil Age	hrs	Client Info		574	612	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		None	None	---
Sample Status				ABNORMAL	NORMAL	---

## WEAR

All component wear rates are normal.

PQ		ASTM D8184		368	171	---
Iron	ppm	ASTM D5185m	>1250	687	341	---
Chromium	ppm	ASTM D5185m	>10	10	6	---
Nickel	ppm	ASTM D5185m	>10	2	<1	---
Titanium	ppm	ASTM D5185m		4	<1	---
Silver	ppm	ASTM D5185m		0	<1	---
Aluminum	ppm	ASTM D5185m		65	4	---
Lead	ppm	ASTM D5185m		<1	0	---
Copper	ppm	ASTM D5185m		1	<1	---
Tin	ppm	ASTM D5185m		<1	<1	---
Vanadium	ppm	ASTM D5185m		<1	<1	---
White Metal	scalar	*Visual	NONE	MODER	LIGHT	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

## CONTAMINATION

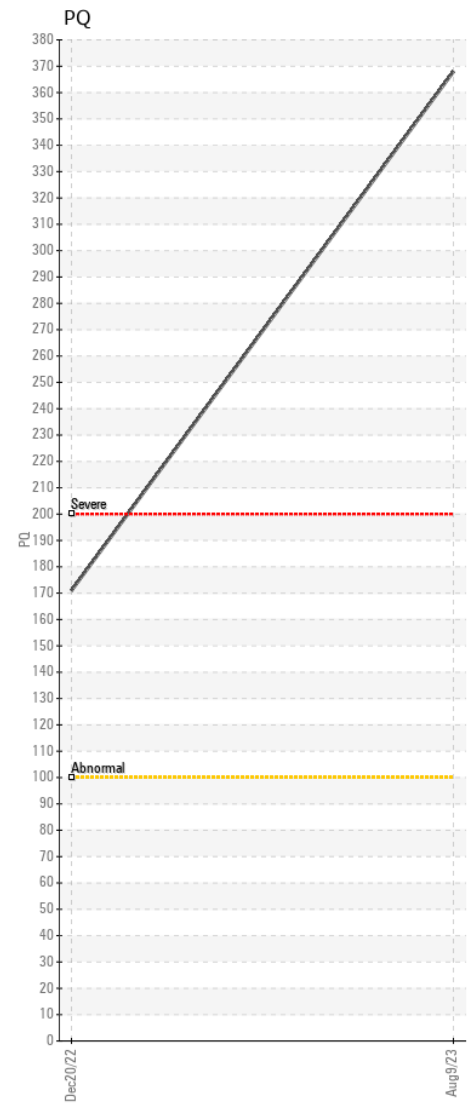
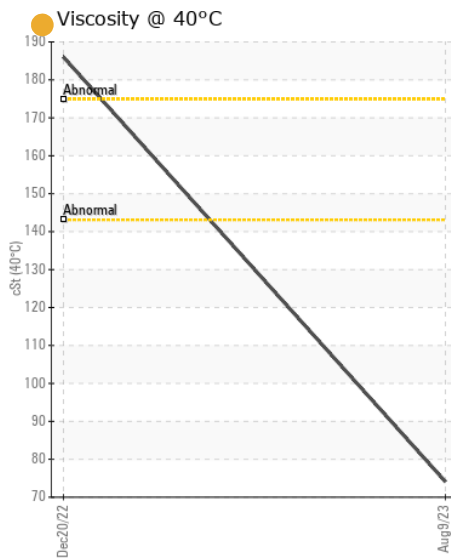
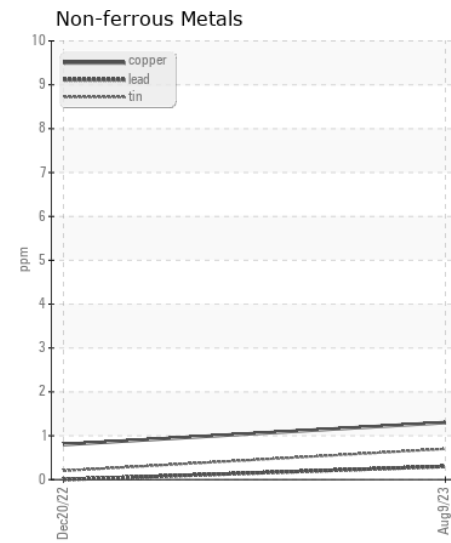
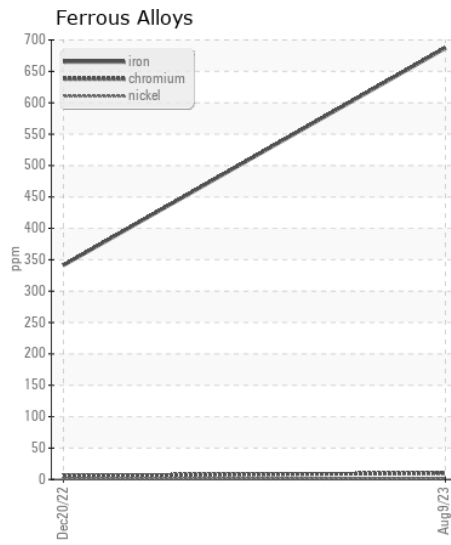
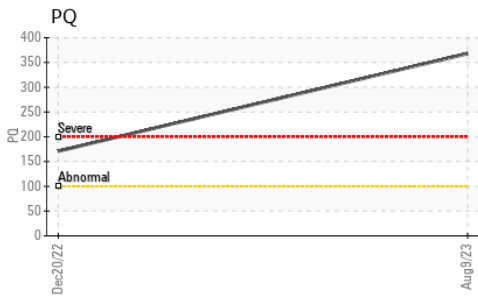
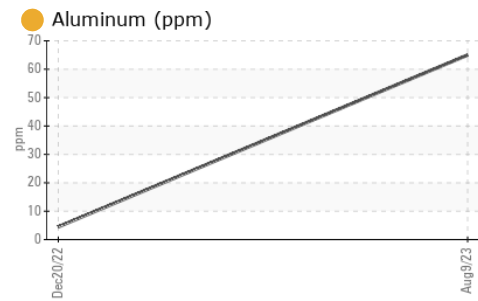
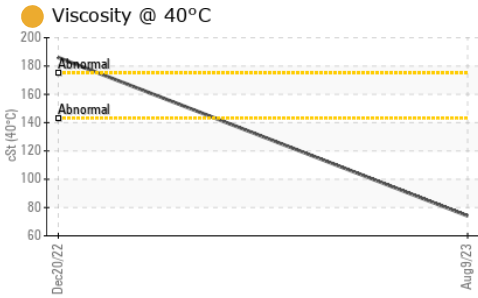
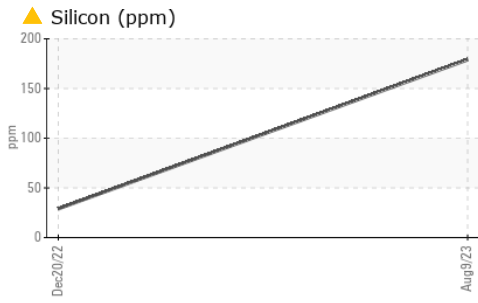
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Silicon	ppm	ASTM D5185m		179	29	---
Potassium	ppm	ASTM D5185m	>20	19	4	---
Water		WC Method	>0.2	NEG	NEG	---
Silt	scalar	*Visual	NONE	NONE	LIGHT	---
Debris	scalar	*Visual	NONE	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	---

## FLUID CONDITION

The oil viscosity is lower than normal. This plus the additive levels indicates the addition of a different brand, or type of oil. Confirm oil type.

Sodium	ppm	ASTM D5185m		4	<1	---
Boron	ppm	ASTM D5185m		44	57	---
Barium	ppm	ASTM D5185m		2	0	---
Molybdenum	ppm	ASTM D5185m		3	<1	---
Manganese	ppm	ASTM D5185m		11	7	---
Magnesium	ppm	ASTM D5185m		85	2	---
Calcium	ppm	ASTM D5185m		2440	14	---
Phosphorus	ppm	ASTM D5185m		856	527	---
Zinc	ppm	ASTM D5185m		882	38	---
Sulfur	ppm	ASTM D5185m		7873	18706	---
Visc @ 40°C	cSt	ASTM D445		74.1	186	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : LEC0043700 **Received** : 11 Aug 2023  
**Lab Number** : 05922455 **Tested** : 14 Aug 2023  
**Unique Number** : 10602402 **Diagnosed** : 14 Aug 2023 - Don Baldrige  
**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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