



# OIL ANALYSIS REPORT

WEAR  
CONTAMINATION  
FLUID CONDITION

ATTENTION  
SEVERE  
ATTENTION



Area  
**Store 9 - Marietta**  
Machine Id  
**JOHN DEERE 210G 1FF210GXLKF527548**  
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. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LEC0050854	LEC0011374	LEC0026192
Sample Date		Client Info		13 Jun 2024	07 Sep 2022	06 Dec 2021
Machine Age	hrs	Client Info		4428	3131	2169
Oil Age	hrs	Client Info		2259	962	538
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Not Changd	Changed
Filter Changed		Client Info		N/A	N/A	None
Sample Status				SEVERE	SEVERE	NORMAL

## WEAR

All component wear rates are normal.

PQ		ASTM D8184		926	896	120
Iron	ppm	ASTM D5185m	>1250	1990	▲ 2269	194
Chromium	ppm	ASTM D5185m	>10	15	▲ 18	2
Nickel	ppm	ASTM D5185m	>10	3	1	0
Titanium	ppm	ASTM D5185m		11	17	<1
Silver	ppm	ASTM D5185m		0	0	<1
Aluminum	ppm	ASTM D5185m		● 142	● 283	11
Lead	ppm	ASTM D5185m		0	<1	0
Copper	ppm	ASTM D5185m		4	5	2
Tin	ppm	ASTM D5185m		0	0	0
Vanadium	ppm	ASTM D5185m		<1	<1	<1
White Metal	scalar	*Visual	NONE	NONE	LIGHT	LIGHT
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

## CONTAMINATION

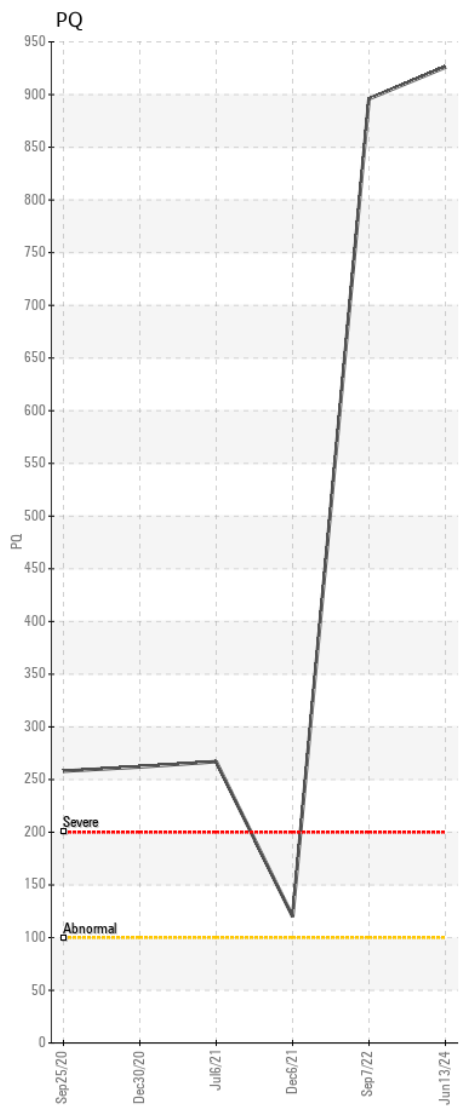
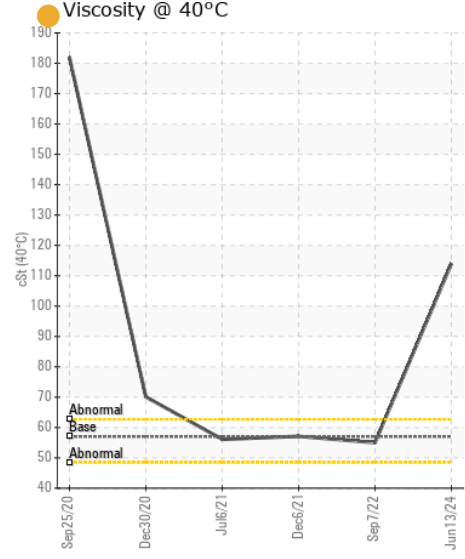
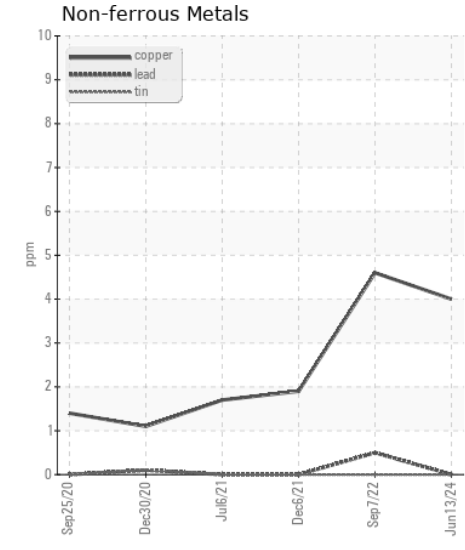
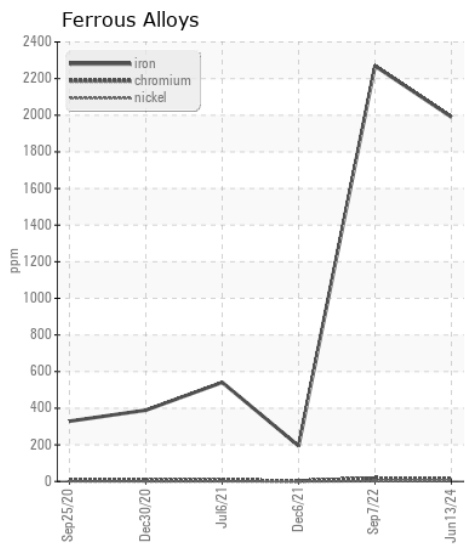
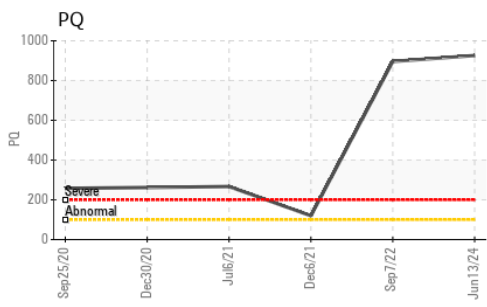
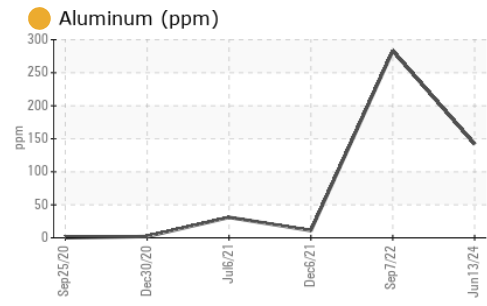
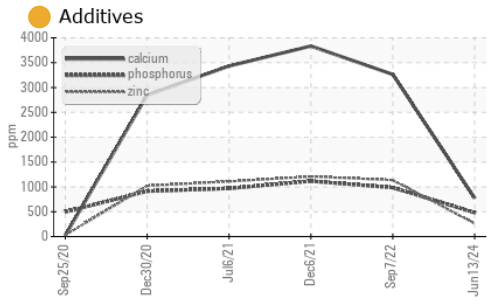
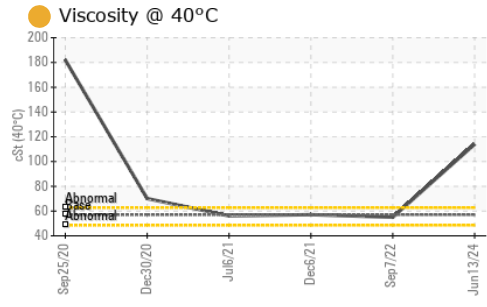
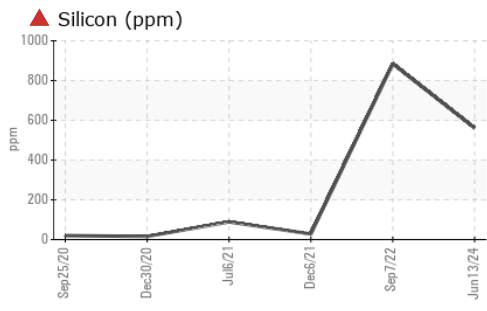
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Silicon	ppm	ASTM D5185m		▲ 561	▲ 884	28
Potassium	ppm	ASTM D5185m	>20	37	74	3
Water		WC Method	>0.2	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG

## FLUID CONDITION

The oil viscosity is higher than normal. This plus the additive levels indicates the addition of a different brand, or type of oil. Confirm oil type. The oil is no longer serviceable due to the presence of contaminants.

Sodium	ppm	ASTM D5185m		10	11	0
Boron	ppm	ASTM D5185m	6	4	13	12
Barium	ppm	ASTM D5185m	0	<1	0	0
Molybdenum	ppm	ASTM D5185m	0	2	2	3
Manganese	ppm	ASTM D5185m		17	21	2
Magnesium	ppm	ASTM D5185m	145	● 40	116	115
Calcium	ppm	ASTM D5185m	3570	● 775	3263	3834
Phosphorus	ppm	ASTM D5185m	1290	● 482	986	1115
Zinc	ppm	ASTM D5185m	1640	● 264	1136	1208
Sulfur	ppm	ASTM D5185m		● 17783	3999	3399
Visc @ 40°C	cSt	ASTM D445	57.0	● 114	55.0	57.1



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : LEC0050854 **Received** : 19 Jun 2024  
**Lab Number** : 06214972 **Tested** : 20 Jun 2024  
**Unique Number** : 11087836 **Diagnosed** : 21 Jun 2024 - Sean Felton  
**Test Package** : CONST ( Additional Tests: PQ )

**LESLIE EQUIPMENT COMPANY**  
 105 TENNIS CENTER DR.  
 MARIETTA, OH  
 US 45750-9765  
 Contact: LEANNE KENDALL  
 KendalLeanne@lec1.com  
 T:  
 F: (740)373-5570

Certificate L2367  
 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)