



# OIL ANALYSIS REPORT

WEAR  
CONTAMINATION  
FLUID CONDITION

<b>SEVERE</b>
<b>SEVERE</b>
<b>ATTENTION</b>



Area  
**Store 9 - Marietta**  
Machine Id  
**JOHN DEERE 210G 1FF210GXLKF527548**  
Component  
**Right 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 advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

## WEAR

Gear wear is indicated.

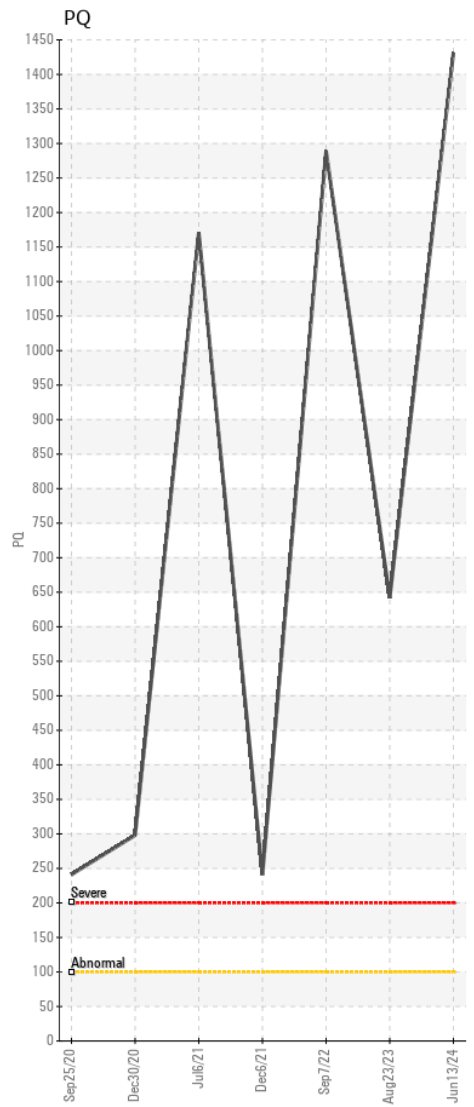
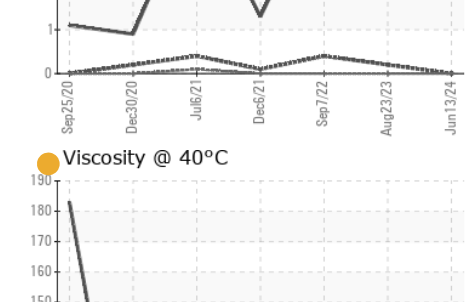
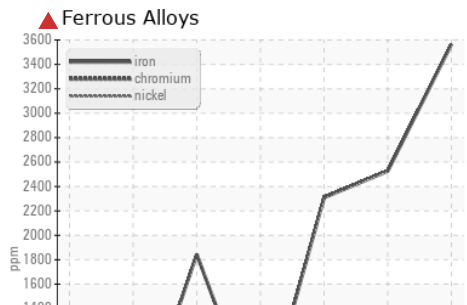
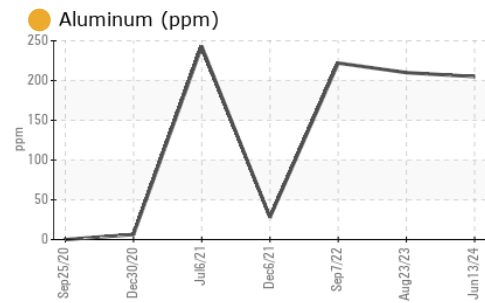
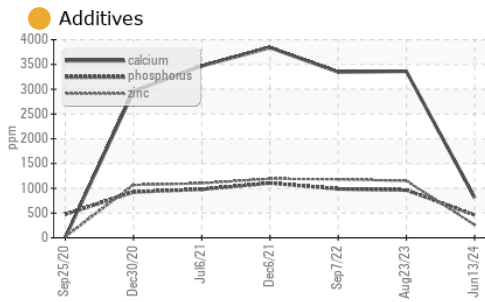
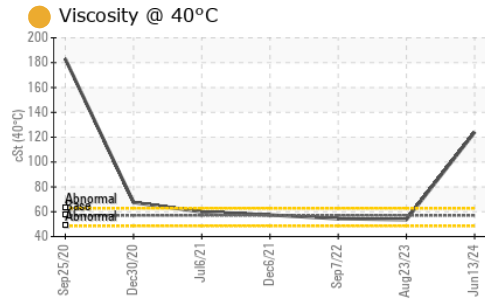
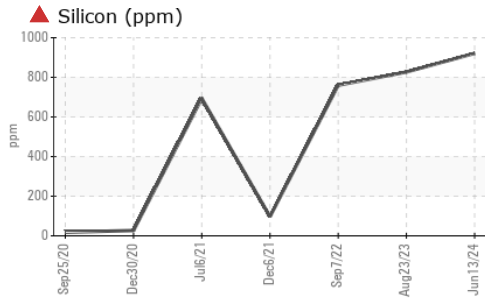
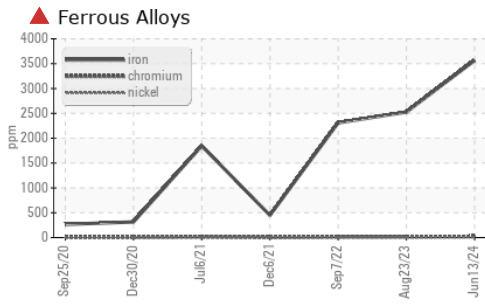
## CONTAMINATION

Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. The water content is negligible.

## 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.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>LEC0050855</b>	LEC0044431	LEC0011376
Sample Date		Client Info		<b>13 Jun 2024</b>	23 Aug 2023	07 Sep 2022
Machine Age	hrs	Client Info		<b>4428</b>	3816	3131
Oil Age	hrs	Client Info		<b>612</b>	1647	962
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Changed</b>	Changed	Not Changd
Filter Changed		Client Info		<b>N/A</b>	None	N/A
Sample Status				<b>SEVERE</b>	SEVERE	SEVERE
PQ		ASTM D8184		<b>1431</b>	642	1289
Iron	ppm	ASTM D5185m	>1250	<b>▲ 3565</b>	2526	▲ 2309
Chromium	ppm	ASTM D5185m	>10	<b>▲ 24</b>	18	▲ 17
Nickel	ppm	ASTM D5185m	>10	<b>6</b>	3	2
Titanium	ppm	ASTM D5185m		<b>18</b>	13	14
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m		<b>● 205</b>	● 210	● 222
Lead	ppm	ASTM D5185m		<b>0</b>	<1	<1
Copper	ppm	ASTM D5185m		<b>7</b>	4	4
Tin	ppm	ASTM D5185m		<b>0</b>	0	0
Vanadium	ppm	ASTM D5185m		<b>1</b>	<1	<1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	LIGHT
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Silicon	ppm	ASTM D5185m		<b>▲ 921</b>	▲ 827	▲ 760
Potassium	ppm	ASTM D5185m	>20	<b>52</b>	62	57
Water	%	ASTM D6304	>0.2	<b>0.172</b>	---	---
ppm Water	ppm	ASTM D6304	>2000	<b>1720</b>	---	---
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	>0.2	<b>0.2%</b>	NEG	NEG
Sodium	ppm	ASTM D5185m		<b>16</b>	7	10
Boron	ppm	ASTM D5185m	6	<b>3</b>	3	4
Barium	ppm	ASTM D5185m	0	<b>1</b>	<1	0
Molybdenum	ppm	ASTM D5185m	0	<b>3</b>	2	2
Manganese	ppm	ASTM D5185m		<b>● 27</b>	22	19
Magnesium	ppm	ASTM D5185m	145	<b>52</b>	114	113
Calcium	ppm	ASTM D5185m	3570	<b>● 813</b>	3361	3345
Phosphorus	ppm	ASTM D5185m	1290	<b>● 459</b>	963	988
Zinc	ppm	ASTM D5185m	1640	<b>● 261</b>	1150	1181
Sulfur	ppm	ASTM D5185m		<b>● 16998</b>	3898	3412
Visc @ 40°C	cSt	ASTM D445	57.0	<b>● 124</b>	53.6	54.4



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : LEC0050855 **Received** : 19 Jun 2024  
**Lab Number** : 06214971 **Tested** : 20 Jun 2024  
**Unique Number** : 11087835 **Diagnosed** : 21 Jun 2024 - Sean Felton  
**Test Package** : CONST ( Additional Tests: KF, PQ )

**LESLIE EQUIPMENT COMPANY**  
 105 TENNIS CENTER DR.  
 MARIETTA, OH  
 US 45750-9765  
 Contact: LEANNE KENDALL  
 KendalLeanne@lec1.com

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)

T: (740)373-5570