



# OIL ANALYSIS REPORT

WEAR	<b>SEVERE</b>
CONTAMINATION	<b>SEVERE</b>
FLUID CONDITION	<b>NORMAL</b>



Machine Id  
**JOHN DEERE 210G EX-4 (S/N 1FF210GXCF523512)**  
 Component  
**Left Final Drive**  
 Fluid  
**SAE 90 (2 GAL)**

## RECOMMENDATION

We advise that you check all areas where dirt can enter the system. Oil and filter 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.

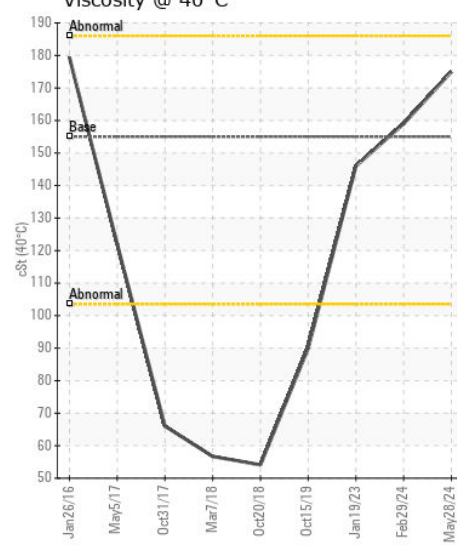
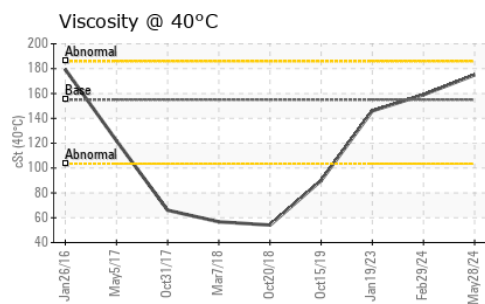
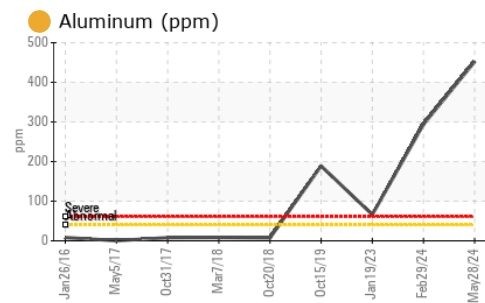
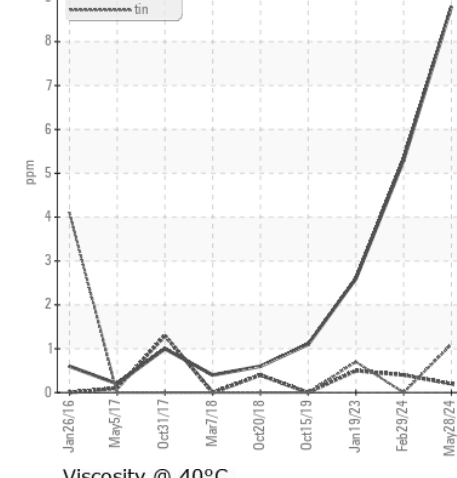
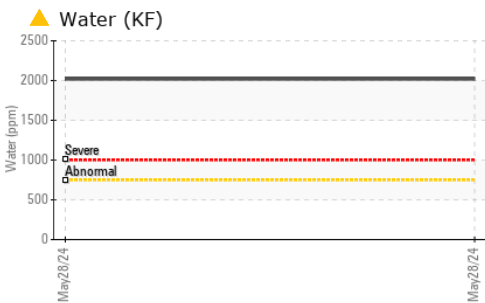
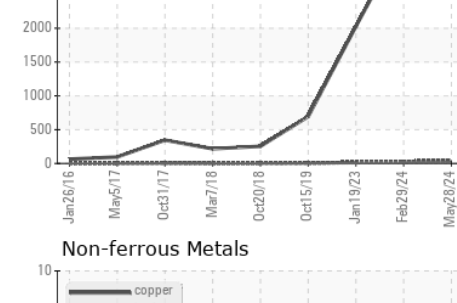
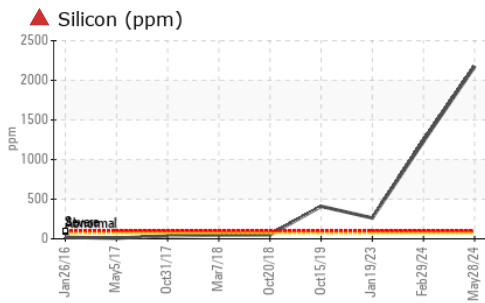
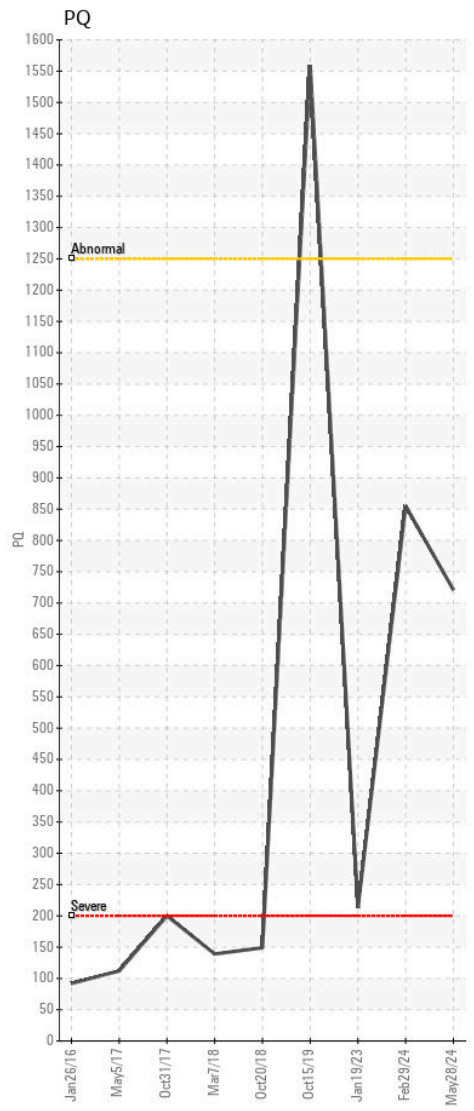
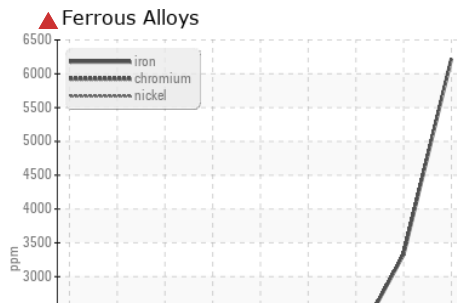
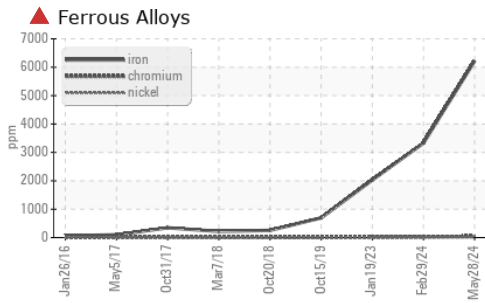
## CONTAMINATION

Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. There is a light concentration of water present in the oil.

## FLUID CONDITION

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>LEC0049023</b>	LEC0047594	LEC0036685
Sample Date		Client Info		<b>28 May 2024</b>	29 Feb 2024	19 Jan 2023
Machine Age	hrs	Client Info		<b>6390</b>	6263	5606
Oil Age	hrs	Client Info		<b>500</b>	500	2586
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Changed</b>	Not Changed	Changed
Filter Changed		Client Info		<b>Changed</b>	Changed	N/A
Sample Status				<b>SEVERE</b>	SEVERE	SEVERE
PQ		ASTM D8184	>1250	<b>721</b>	855	213
Iron	ppm	ASTM D5185m	>750	<b>▲ 6221</b>	▲ 3328	2028
Chromium	ppm	ASTM D5185m	>9	<b>▲ 47</b>	▲ 25	16
Nickel	ppm	ASTM D5185m	>10	<b>▲ 10</b>	7	3
Titanium	ppm	ASTM D5185m		<b>39</b>	▲ 26	6
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>40	<b>● 452</b>	● 294	● 66
Lead	ppm	ASTM D5185m	>15	<b>&lt;1</b>	<1	<1
Copper	ppm	ASTM D5185m	>40	<b>9</b>	5	3
Tin	ppm	ASTM D5185m	>10	<b>1</b>	0	<1
Vanadium	ppm	ASTM D5185m		<b>2</b>	1	<1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	MODER
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Silicon	ppm	ASTM D5185m	>75	<b>▲ 2173</b>	▲ 1228	▲ 263
Potassium	ppm	ASTM D5185m	>20	<b>126</b>	77	17
Water	%	ASTM D6304	>0.075	<b>▲ 0.202</b>	---	---
ppm Water	ppm	ASTM D6304	>750	<b>▲ 2020</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	>0.075	<b>▲ 0.2%</b>	NEG	NEG
Sodium	ppm	ASTM D5185m	>51	<b>26</b>	13	3
Boron	ppm	ASTM D5185m		<b>79</b>	52	77
Barium	ppm	ASTM D5185m		<b>3</b>	<1	3
Molybdenum	ppm	ASTM D5185m		<b>8</b>	3	2
Manganese	ppm	ASTM D5185m		<b>47</b>	28	16
Magnesium	ppm	ASTM D5185m		<b>51</b>	36	7
Calcium	ppm	ASTM D5185m		<b>167</b>	● 90	28
Phosphorus	ppm	ASTM D5185m		<b>758</b>	666	807
Zinc	ppm	ASTM D5185m		<b>11</b>	13	20
Sulfur	ppm	ASTM D5185m		<b>26189</b>	19768	23125
Visc @ 40°C	cSt	ASTM D445	155	<b>175</b>	159	146



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : LEC0049023 **Received** : 31 May 2024  
**Lab Number** : 06197020 **Tested** : 04 Jun 2024  
**Unique Number** : 11059143 **Diagnosed** : 04 Jun 2024 - Sean Felton  
**Test Package** : CONST ( Additional Tests: KF, PQ )

**LANE PIPELINE**  
 2946 E MAIN ST  
 BRIDGEPORT, WV  
 US 26330  
 Contact: JESSE WILBURN  
 jesseowilburn@gmail.com  
 T: (740)440-0927  
 F:

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)