



OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	ATTENTION



Area
Store 9 - Marietta
Machine Id
JOHN DEERE 210G LC EX51 (S/N 1FF210GXKLF528838)
Component
Pump Drive
Fluid
GEAR OIL SAE 90 (1 QTS)

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		LEC0047661	LEC0040121	---
Sample Date		Client Info		16 Dec 2023	13 Apr 2023	---
Machine Age	hrs	Client Info		3933	3015	---
Oil Age	hrs	Client Info		1000	500	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		Changed	Not Changed	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				ABNORMAL	ABNORMAL	---

WEAR

Gear wear is indicated. All other component wear rates are normal.

PQ		ASTM D8184		19	21	---
Iron	ppm	ASTM D5185m	>151	▲ 206	▲ 171	---
Chromium	ppm	ASTM D5185m	>11	3	3	---
Nickel	ppm	ASTM D5185m	>10	0	0	---
Titanium	ppm	ASTM D5185m		<1	1	---
Silver	ppm	ASTM D5185m		0	0	---
Aluminum	ppm	ASTM D5185m	>21	▲ 17	▲ 18	---
Lead	ppm	ASTM D5185m	>51	<1	<1	---
Copper	ppm	ASTM D5185m	>51	2	1	---
Tin	ppm	ASTM D5185m	>4	<1	0	---
Vanadium	ppm	ASTM D5185m		0	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

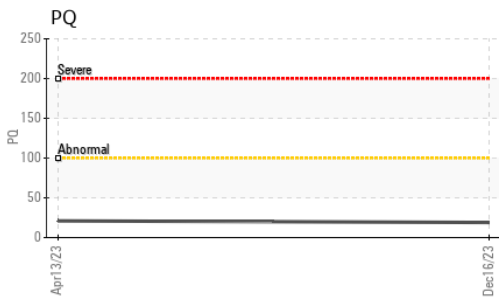
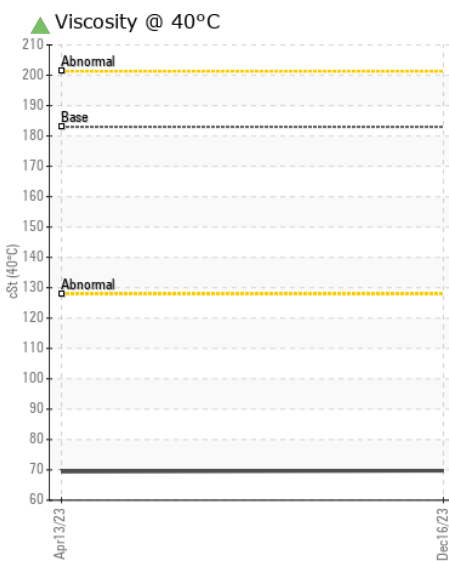
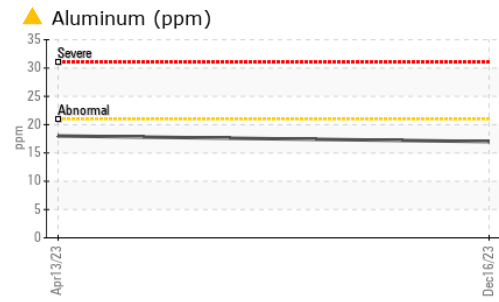
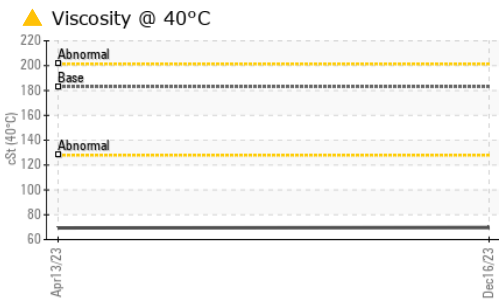
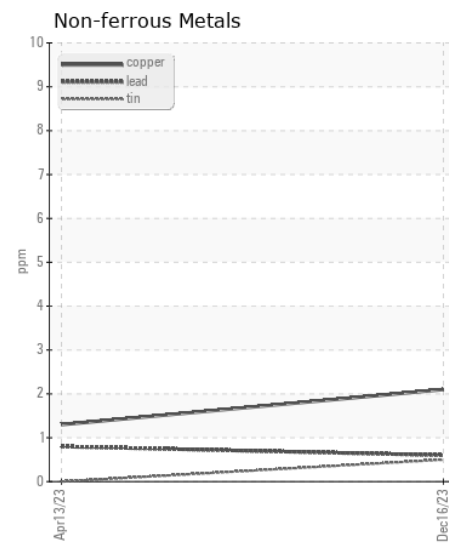
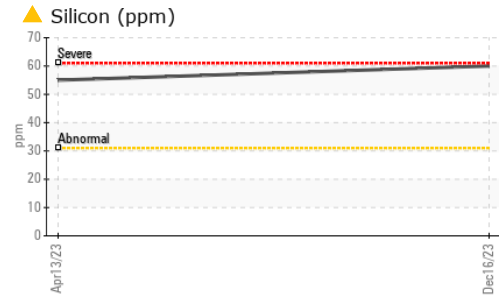
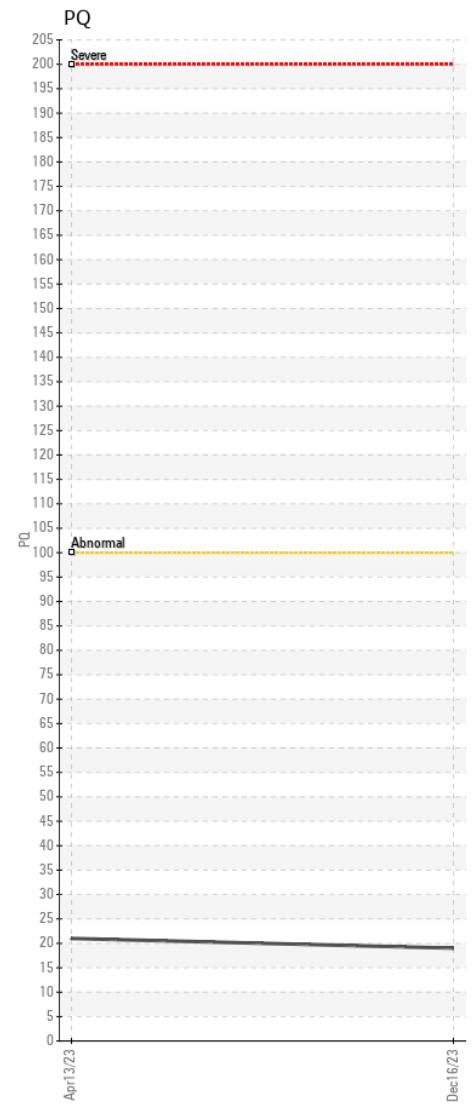
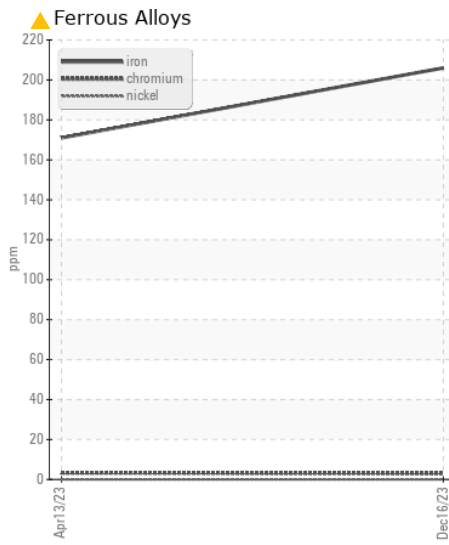
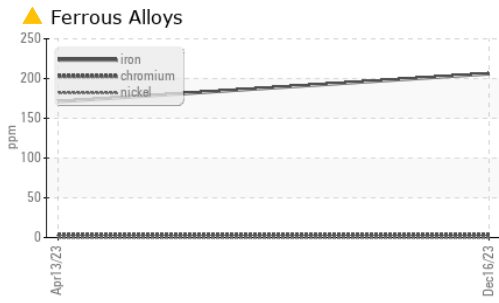
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Silicon	ppm	ASTM D5185m	>31	▲ 60	▲ 55	---
Potassium	ppm	ASTM D5185m	>20	5	5	---
Water		WC Method	>0.1	NEG	NEG	---
Silt	scalar	*Visual	NONE	NONE	NONE	---
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	>0.1	NEG	NEG	---

FLUID CONDITION

The oil viscosity is lower than normal. Confirm oil type. The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m	>51	4	2	---
Boron	ppm	ASTM D5185m	400	63	66	---
Barium	ppm	ASTM D5185m	200	4	0	---
Molybdenum	ppm	ASTM D5185m	12	95	95	---
Manganese	ppm	ASTM D5185m		4	3	---
Magnesium	ppm	ASTM D5185m	12	22	23	---
Calcium	ppm	ASTM D5185m	150	3889	3615	---
Phosphorus	ppm	ASTM D5185m	1650	1243	1147	---
Zinc	ppm	ASTM D5185m	125	1257	1222	---
Sulfur	ppm	ASTM D5185m	22500	7738	8787	---
Visc @ 40°C	cSt	ASTM D445	183	▲ 69.7	▲ 69.4	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LEC0047661 **Received** : 17 Jan 2024
Lab Number : 06063882 **Diagnosed** : 20 Jan 2024
Unique Number : 10835264 **Diagnostician** : Don Baldrige
Test Package : CONST (Additional Tests: PQ)

LANE PIPELINE
 2946 E MAIN ST
 BRIDGEPORT, WV
 US 26330
 Contact: SCOTT

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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