



OIL ANALYSIS REPORT

WEAR	SEVERE
CONTAMINATION	SEVERE
FLUID CONDITION	NORMAL



Machine Id
JOHN DEERE 210G 1FF210GXVKF527613
Component
Left Propel Gearbox
Fluid
GEAR OIL SAE 90 (2 GAL)

RECOMMENDATION

We advise that you check all areas where dirt can enter the system. We recommend that you drain the oil from the component if this has not already been done. 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.

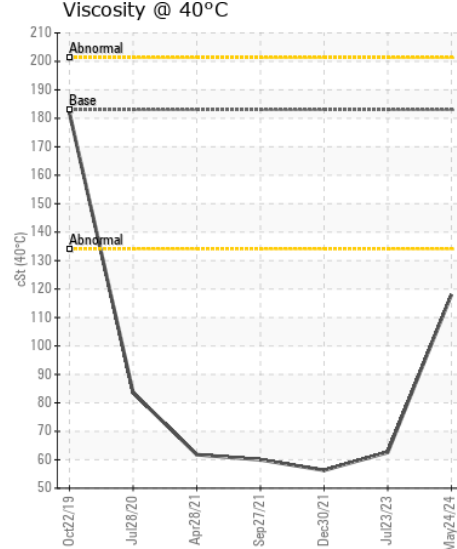
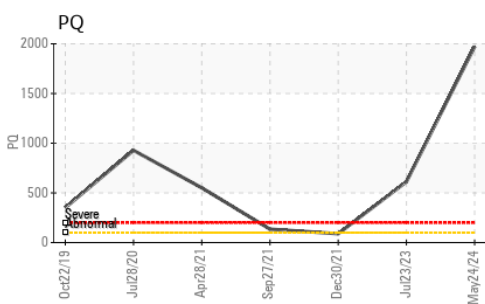
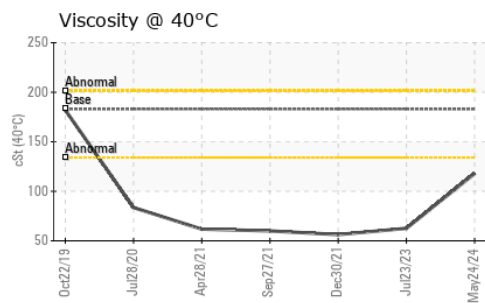
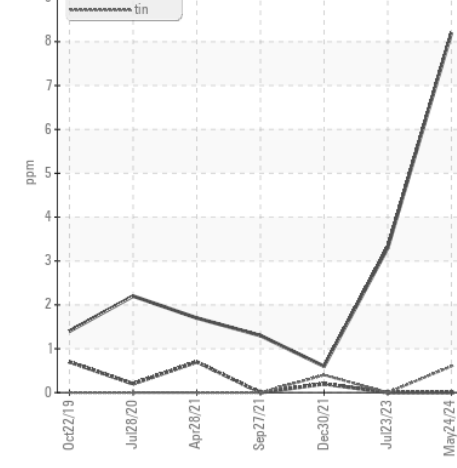
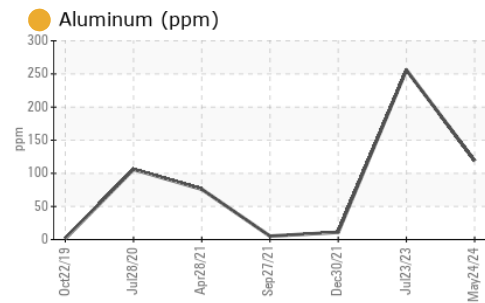
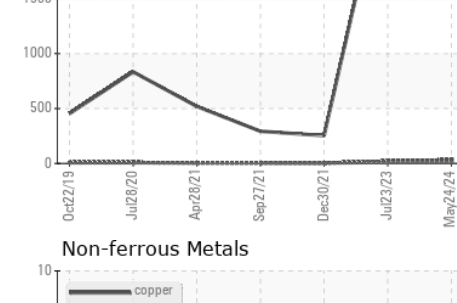
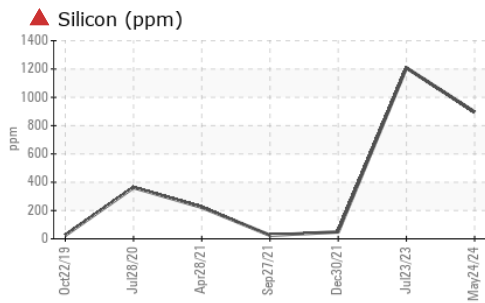
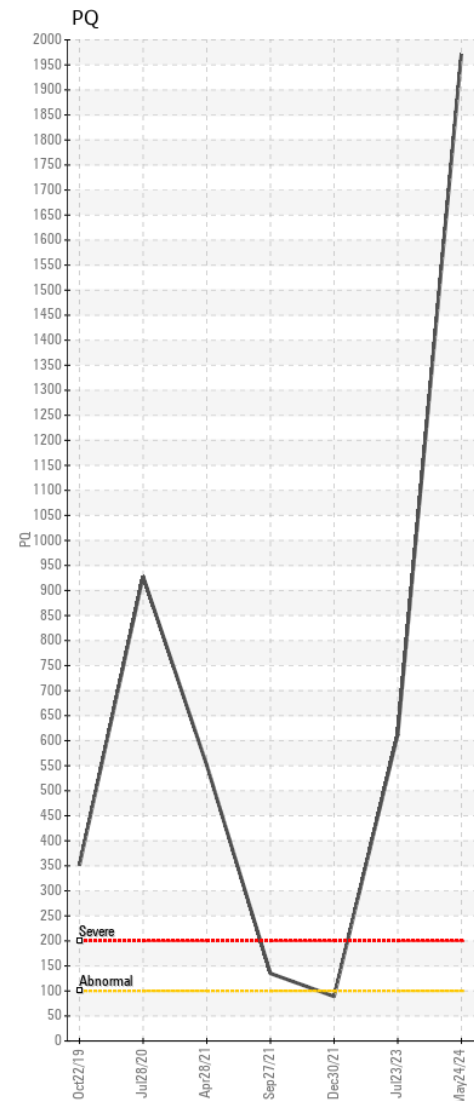
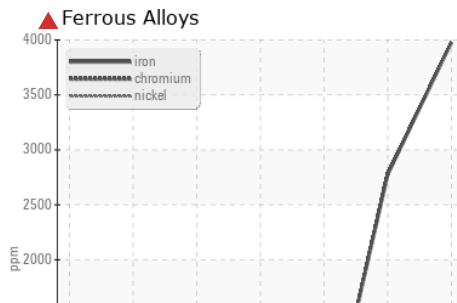
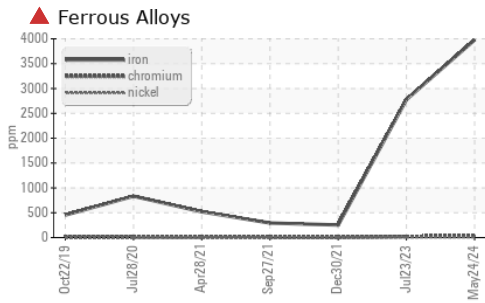
CONTAMINATION

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

FLUID CONDITION

The oil is no longer serviceable due to the presence of contaminants.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LEC0049029	LEC0040727	LEC0026955
Sample Date		Client Info		24 May 2024	23 Jul 2023	30 Dec 2021
Machine Age	hrs	Client Info		4179	3574	2280
Oil Age	hrs	Client Info		500	1294	397
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changed	Changed	Changed
Filter Changed		Client Info		Changed	None	N/A
Sample Status				SEVERE	SEVERE	NORMAL
PQ		ASTM D8184		1971	612	89
Iron	ppm	ASTM D5185m	>1250	▲ 3978	▲ 2777	253
Chromium	ppm	ASTM D5185m	>10	▲ 32	▲ 21	2
Nickel	ppm	ASTM D5185m	>10	5	3	0
Titanium	ppm	ASTM D5185m		16	23	1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m		● 119	● 256	11
Lead	ppm	ASTM D5185m		0	0	<1
Copper	ppm	ASTM D5185m		8	3	<1
Tin	ppm	ASTM D5185m		<1	0	<1
Vanadium	ppm	ASTM D5185m		<1	1	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	LIGHT
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m		▲ 896	▲ 1208	49
Potassium	ppm	ASTM D5185m	>20	31	76	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
Sodium	ppm	ASTM D5185m		6	10	1
Boron	ppm	ASTM D5185m	400	163	6	8
Barium	ppm	ASTM D5185m	200	<1	1	0
Molybdenum	ppm	ASTM D5185m	12	7	3	3
Manganese	ppm	ASTM D5185m		30	26	2
Magnesium	ppm	ASTM D5185m	12	36	120	97
Calcium	ppm	ASTM D5185m	150	750	3433	3301
Phosphorus	ppm	ASTM D5185m	1650	1074	997	972
Zinc	ppm	ASTM D5185m	125	307	1130	1173
Sulfur	ppm	ASTM D5185m	22500	18075	3978	3538
Visc @ 40°C	cSt	ASTM D445	183	118	62.6	56.3



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LEC0049029 **Received** : 31 May 2024
Lab Number : 06197023 **Tested** : 03 Jun 2024
Unique Number : 11059146 **Diagnosed** : 04 Jun 2024 - Sean Felton
Test Package : CONST (Additional Tests: PQ)

LANE PIPELINE
 2946 E MAIN ST
 BRIDGEPORT, WV
 US 26330
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 T: (740)440-0927
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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)