



OIL ANALYSIS REPORT

WEAR
CONTAMINATION
FLUID CONDITION

SEVERE
SEVERE
NORMAL



Area
Store 9 - Marietta
Machine Id
JOHN DEERE 210G LC EX51 (S/N 1FF210GXKLF528838)
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. 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.

FLUID CONDITION

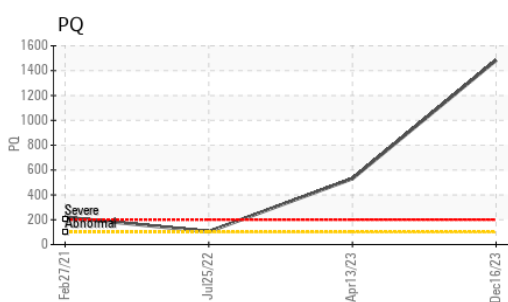
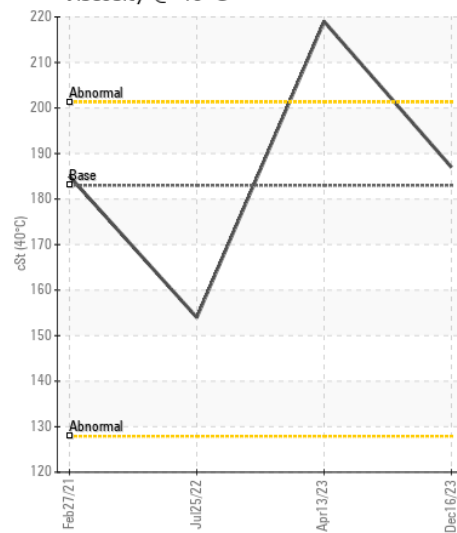
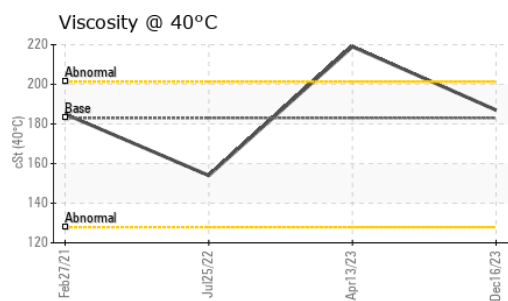
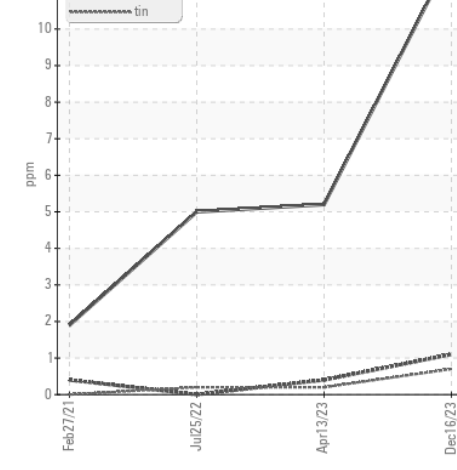
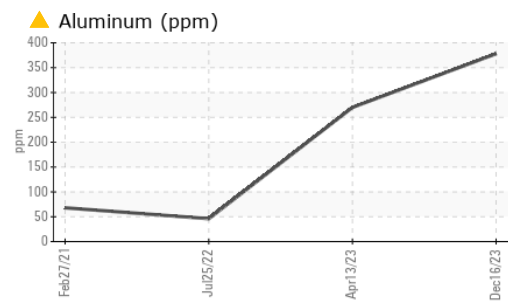
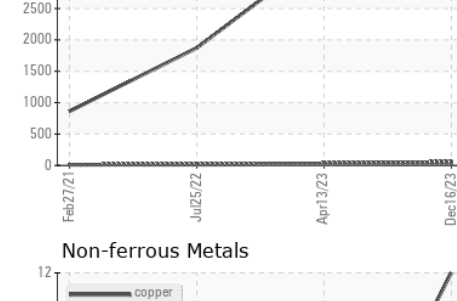
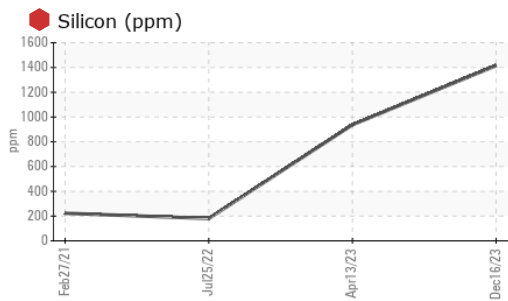
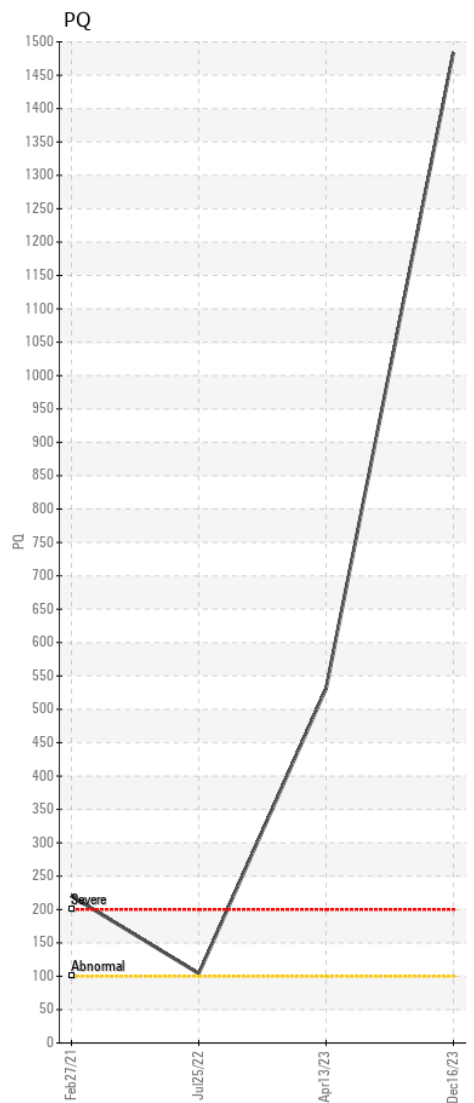
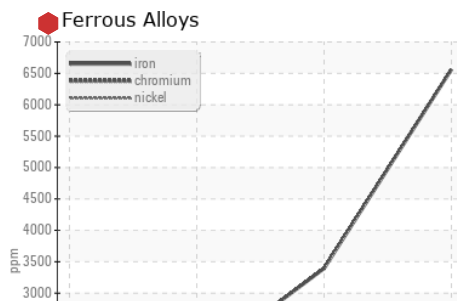
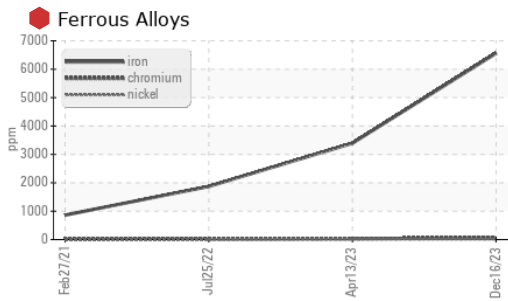
The oil is no longer serviceable due to the presence of contaminants.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LEC0047659	LEC0040117	LEC0032018
Sample Date		Client Info		16 Dec 2023	13 Apr 2023	25 Jul 2022
Machine Age	hrs	Client Info		3933	3015	500
Oil Age	hrs	Client Info		1000	500	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Not Changd	Not Changd
Filter Changed		Client Info		Changed	Changed	N/A
Sample Status				SEVERE	SEVERE	ABNORMAL

PQ		ASTM D8184		1484	531	104
Iron	ppm	ASTM D5185m	>1250	6563	3394	1872
Chromium	ppm	ASTM D5185m	>10	56	33	20
Nickel	ppm	ASTM D5185m	>10	9	6	1
Titanium	ppm	ASTM D5185m		27	21	4
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m		378	270	46
Lead	ppm	ASTM D5185m		1	<1	0
Copper	ppm	ASTM D5185m		12	5	5
Tin	ppm	ASTM D5185m		<1	<1	<1
Vanadium	ppm	ASTM D5185m		2	1	<1
White Metal	scalar	*Visual	NONE	NONE	MODER	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

Silicon	ppm	ASTM D5185m		1415	937	180
Potassium	ppm	ASTM D5185m	>20	103	66	10
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		18	11	2
Boron	ppm	ASTM D5185m	400	116	105	109
Barium	ppm	ASTM D5185m	200	4	0	0
Molybdenum	ppm	ASTM D5185m	12	5	2	1
Manganese	ppm	ASTM D5185m		57	34	20
Magnesium	ppm	ASTM D5185m	12	38	28	4
Calcium	ppm	ASTM D5185m	150	33	23	12
Phosphorus	ppm	ASTM D5185m	1650	772	752	760
Zinc	ppm	ASTM D5185m	125	32	33	30
Sulfur	ppm	ASTM D5185m	22500	28055	25056	21776
Visc @ 40°C	cSt	ASTM D445	183	187	219	154



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LEC0047659 **Received** : 17 Jan 2024
Lab Number : 06063864 **Diagnosed** : 20 Jan 2024
Unique Number : 10835246 **Diagnostician** : Don Baldrige
Test Package : CONST (Additional Tests: PQ)

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

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)

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 F: