



OIL ANALYSIS REPORT

WEAR	SEVERE
CONTAMINATION	SEVERE
FLUID CONDITION	NORMAL



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

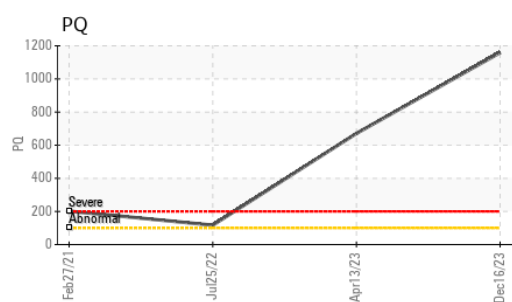
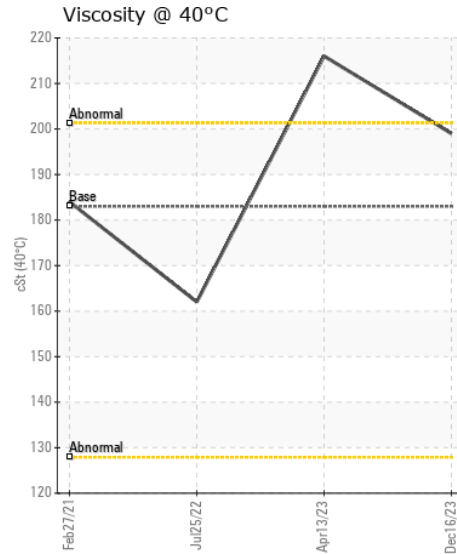
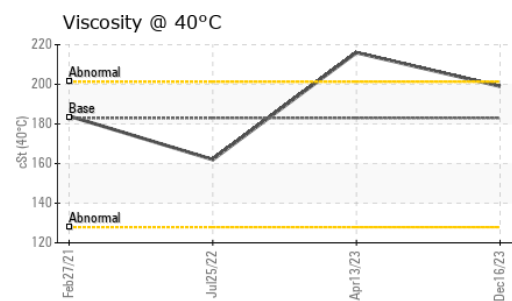
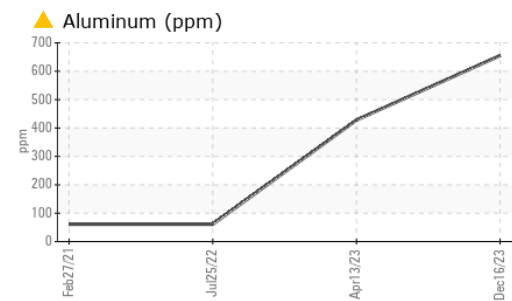
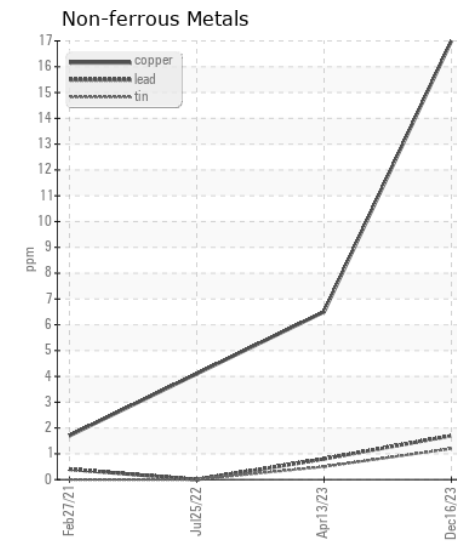
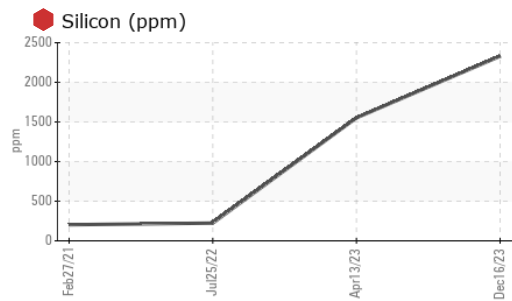
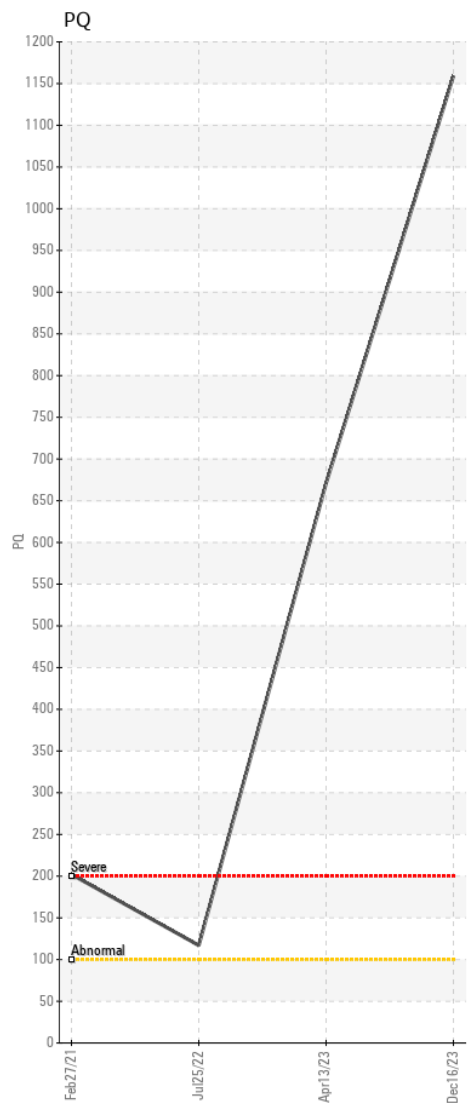
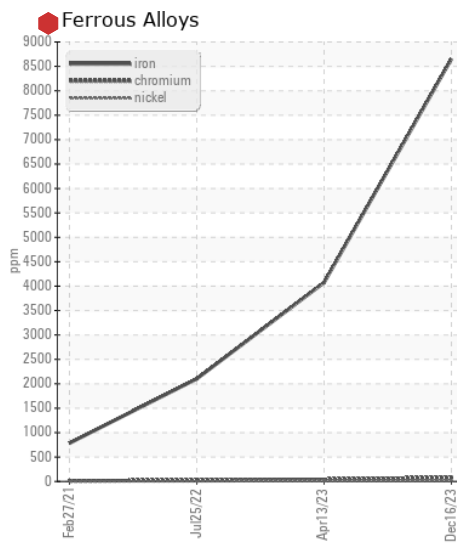
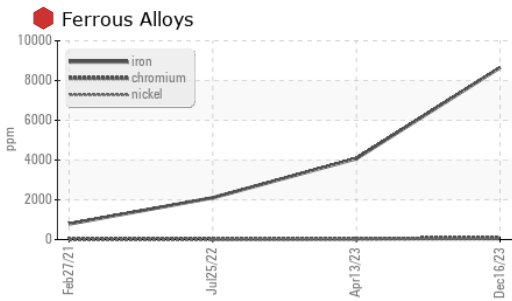
The oil is no longer serviceable due to the presence of contaminants.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LEC0047660	LEC0040118	LEC0032019
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		1159	671	117
Iron	ppm	ASTM D5185m	>1250	8653	4074	2102
Chromium	ppm	ASTM D5185m	>10	81	41	24
Nickel	ppm	ASTM D5185m	>10	14	8	3
Titanium	ppm	ASTM D5185m		45	34	5
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m		655	428	61
Lead	ppm	ASTM D5185m		2	<1	0
Copper	ppm	ASTM D5185m		17	6	4
Tin	ppm	ASTM D5185m		1	<1	0
Vanadium	ppm	ASTM D5185m		3	2	<1
White Metal	scalar	*Visual	NONE	NONE	MODER	MODER
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

Silicon	ppm	ASTM D5185m		2330	1552	224
Potassium	ppm	ASTM D5185m	>20	178	114	16
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		30	19	2
Boron	ppm	ASTM D5185m	400	135	97	112
Barium	ppm	ASTM D5185m	200	7	0	<1
Molybdenum	ppm	ASTM D5185m	12	8	3	2
Manganese	ppm	ASTM D5185m		81	42	23
Magnesium	ppm	ASTM D5185m	12	67	46	6
Calcium	ppm	ASTM D5185m	150	63	53	16
Phosphorus	ppm	ASTM D5185m	1650	788	700	733
Zinc	ppm	ASTM D5185m	125	40	35	31
Sulfur	ppm	ASTM D5185m	22500	38892	25056	22516
Visc @ 40°C	cSt	ASTM D445	183	199	216	162



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LEC0047660 **Received** : 17 Jan 2024
Lab Number : 06063865 **Diagnosed** : 20 Jan 2024
Unique Number : 10835247 **Diagnostician** : Don Baldrige
Test Package : CONST (Additional Tests: PQ)

LANE PIPELINE
 2946 E MAIN ST
 BRIDGEPORT, WV
 US 26330
 Contact: JESSE WILBURN
 jessewilburn@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)