



OIL ANALYSIS REPORT

WEAR	SEVERE
CONTAMINATION	SEVERE
FLUID CONDITION	NORMAL



Area
Store 3 - Norton
Machine Id
JOHN DEERE 210G EX13 (S/N 1FF210GXHHF525180)
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.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LEC0049024	LEC0047676	LEC0039955
Sample Date		Client Info		28 May 2024	23 Jan 2024	02 Mar 2023
Machine Age	hrs	Client Info		5182	4844	4309
Oil Age	hrs	Client Info		500	500	1101
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Not Chngd	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				SEVERE	SEVERE	SEVERE

WEAR

Gear wear is indicated.

PQ		ASTM D8184		548	767	270
Iron	ppm	ASTM D5185m	>1250	▲ 3503	▲ 3001	▲ 3236
Chromium	ppm	ASTM D5185m	>10	▲ 28	▲ 23	▲ 18
Nickel	ppm	ASTM D5185m	>10	4	3	5
Titanium	ppm	ASTM D5185m		13	11	15
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m		● 138	● 102	● 210
Lead	ppm	ASTM D5185m		0	0	<1
Copper	ppm	ASTM D5185m		6	5	5
Tin	ppm	ASTM D5185m		<1	0	0
Vanadium	ppm	ASTM D5185m		<1	0	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

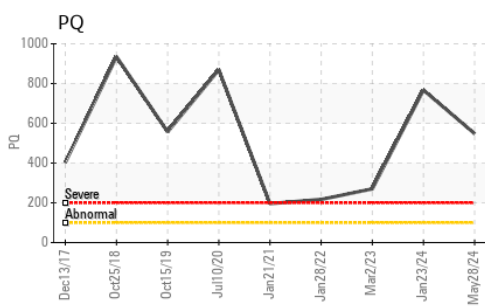
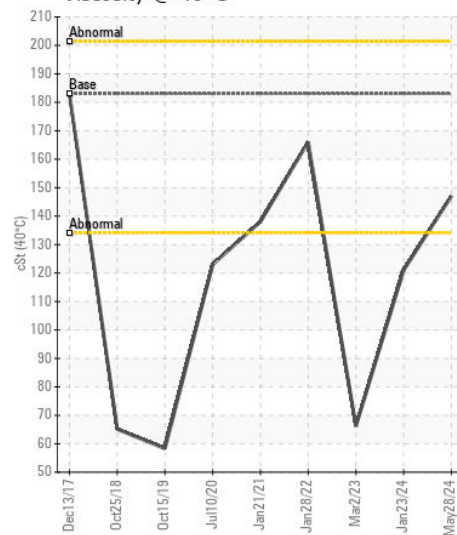
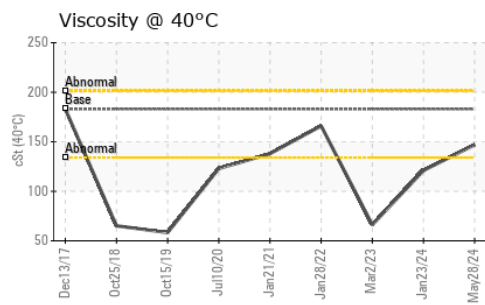
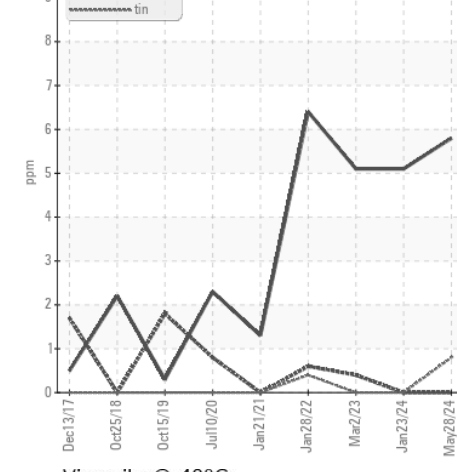
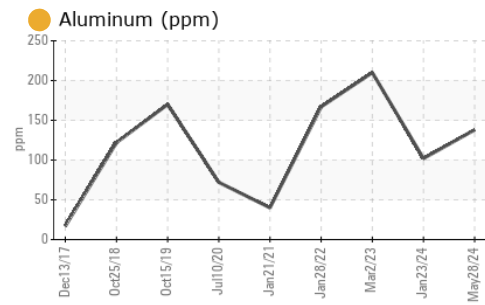
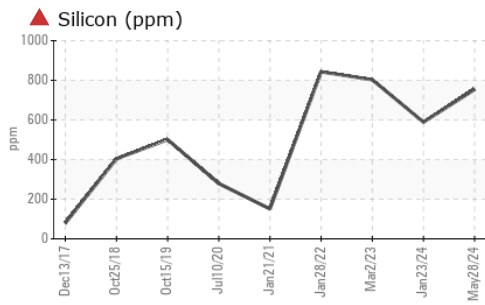
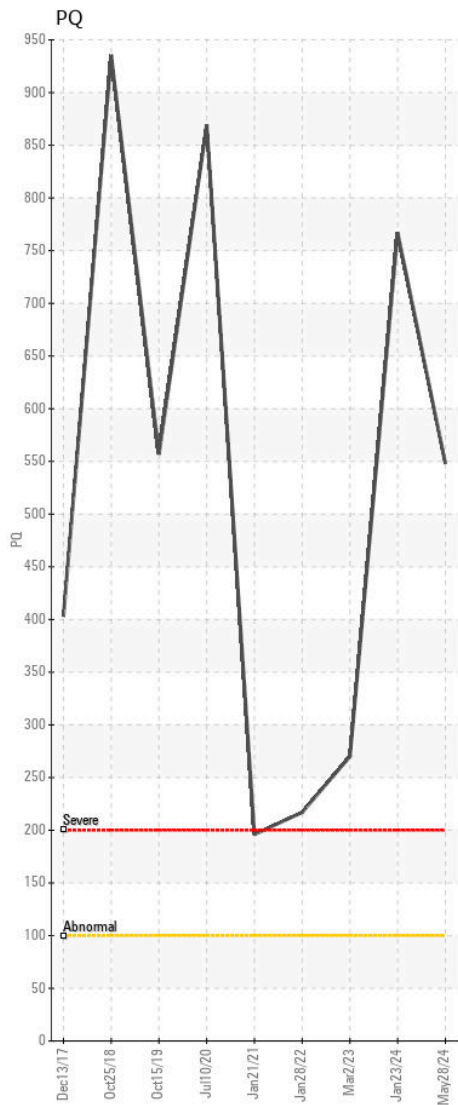
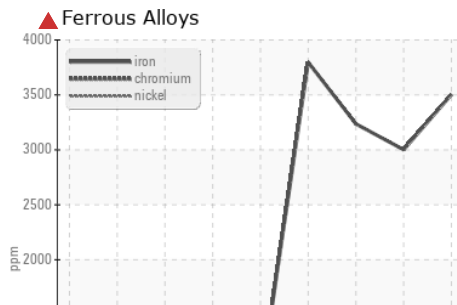
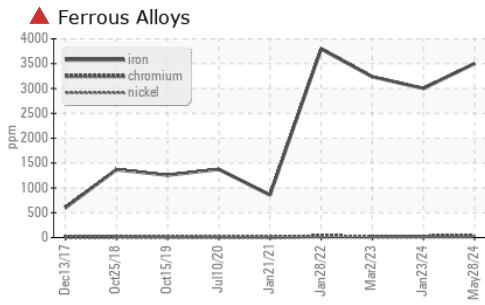
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Silicon	ppm	ASTM D5185m		▲ 754	▲ 589	▲ 803
Potassium	ppm	ASTM D5185m	>20	39	31	58
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	▲ 0.2%	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		10	0	4
Boron	ppm	ASTM D5185m	400	167	149	47
Barium	ppm	ASTM D5185m	200	<1	<1	2
Molybdenum	ppm	ASTM D5185m	12	6	3	6
Manganese	ppm	ASTM D5185m		26	21	23
Magnesium	ppm	ASTM D5185m	12	35	31	90
Calcium	ppm	ASTM D5185m	150	605	611	2470
Phosphorus	ppm	ASTM D5185m	1650	1093	1048	994
Zinc	ppm	ASTM D5185m	125	235	246	891
Sulfur	ppm	ASTM D5185m	22500	20243	19207	6821
Visc @ 40°C	cSt	ASTM D445	183	147	121	● 66.2



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LEC0049024 **Received** : 31 May 2024
Lab Number : 06197031 **Tested** : 04 Jun 2024
Unique Number : 11059154 **Diagnosed** : 04 Jun 2024 - Don Baldrige
Test Package : CONST (Additional Tests: PQ)

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