



OIL ANALYSIS REPORT

WEAR	SEVERE
CONTAMINATION	SEVERE
FLUID CONDITION	NORMAL



Area
Store 3 - Norton
Machine Id
JOHN DEERE 210G EX13 (S/N 1FF210GXHHF525180)
Component
Left Propel Gearbox
Fluid
SAE 90 (2 GAL)

RECOMMENDATION

We advise that you check all areas where dirt can enter the system. Oil and filter 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.

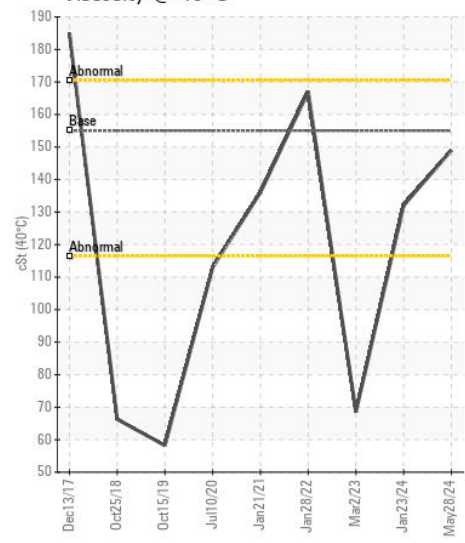
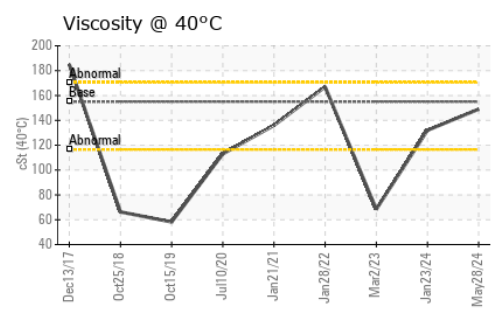
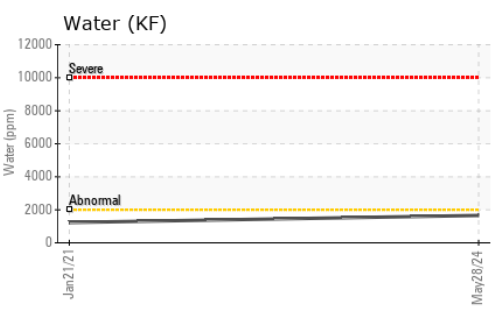
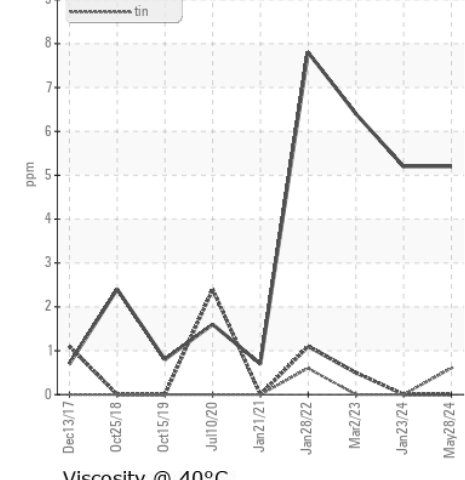
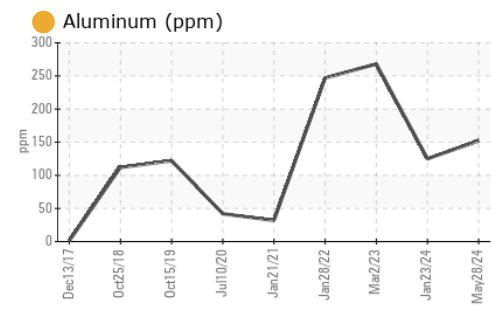
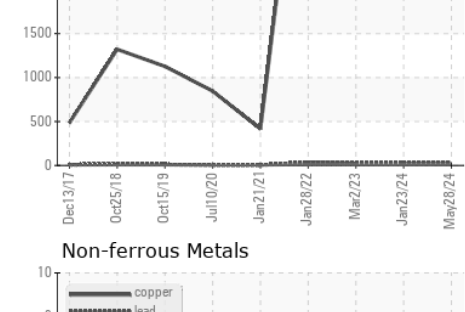
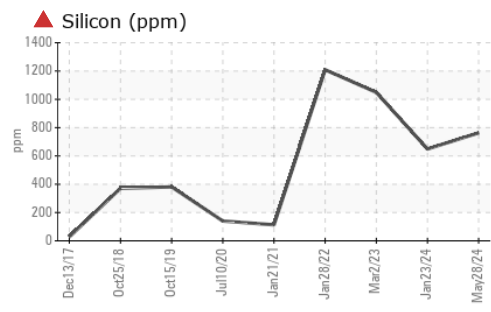
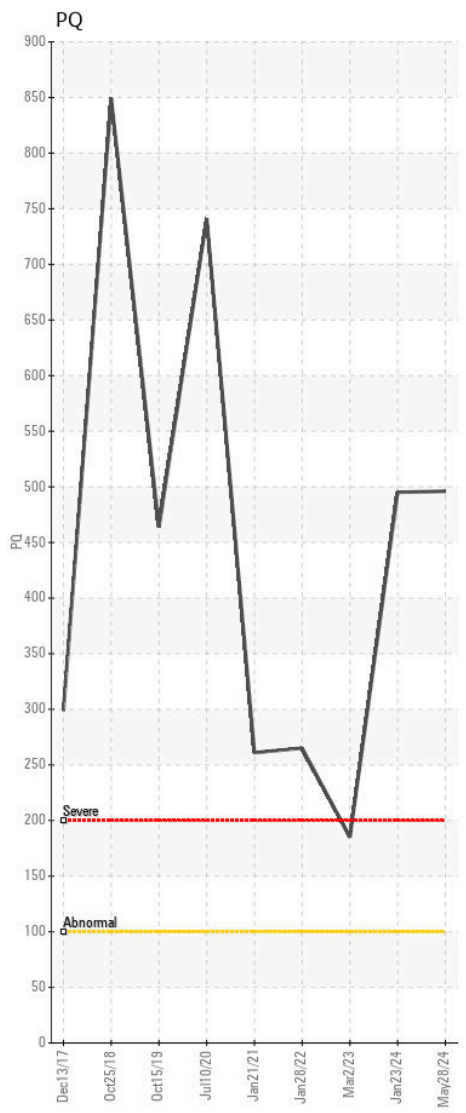
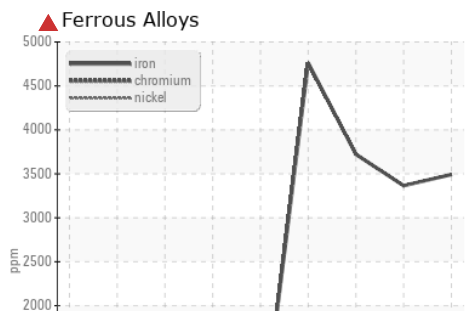
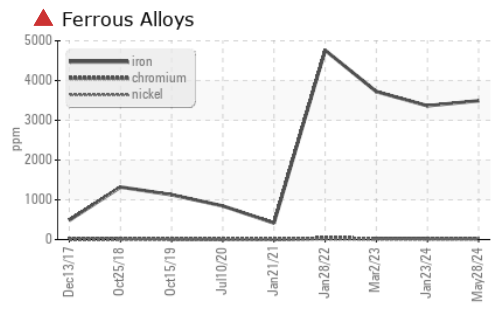
CONTAMINATION

Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. 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		LEC0049025	LEC0047675	LEC0039956
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	1000
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Not Changd	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				SEVERE	SEVERE	SEVERE
PQ		ASTM D8184		496	495	185
Iron	ppm	ASTM D5185m	>1250	▲ 3492	▲ 3365	▲ 3722
Chromium	ppm	ASTM D5185m	>10	▲ 28	▲ 25	▲ 24
Nickel	ppm	ASTM D5185m	>10	5	4	7
Titanium	ppm	ASTM D5185m		14	12	21
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m		● 152	● 125	● 268
Lead	ppm	ASTM D5185m		0	0	<1
Copper	ppm	ASTM D5185m		5	5	6
Tin	ppm	ASTM D5185m		<1	0	0
Vanadium	ppm	ASTM D5185m		<1	<1	1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m		▲ 763	▲ 649	▲ 1049
Potassium	ppm	ASTM D5185m	>20	40	35	71
Water	%	ASTM D6304	>0.2	0.166	---	---
ppm Water	ppm	ASTM D6304	>2000	1660	---	---
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	0.2%	NEG	NEG
Sodium	ppm	ASTM D5185m		10	0	8
Boron	ppm	ASTM D5185m		156	148	47
Barium	ppm	ASTM D5185m		<1	1	3
Molybdenum	ppm	ASTM D5185m		6	3	5
Manganese	ppm	ASTM D5185m		25	23	28
Magnesium	ppm	ASTM D5185m		30	31	91
Calcium	ppm	ASTM D5185m		461	497	2579
Phosphorus	ppm	ASTM D5185m		1030	1036	988
Zinc	ppm	ASTM D5185m		169	191	895
Sulfur	ppm	ASTM D5185m		21865	19964	13647
Visc @ 40°C	cSt	ASTM D445	155	149	132	68.5



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LEC0049025 **Received** : 31 May 2024
Lab Number : 06197030 **Tested** : 04 Jun 2024
Unique Number : 11059153 **Diagnosed** : 04 Jun 2024 - Sean Felton
Test Package : CONST (Additional Tests: KF, PQ)

LANE PIPELINE
 2946 E MAIN ST
 BRIDGEPORT, WV
 US 26330
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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)