



OIL ANALYSIS REPORT

WEAR
CONTAMINATION
FLUID CONDITION

SEVERE
ABNORMAL
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. 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.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LEC0047675	LEC0039956	LEC0026841
Sample Date		Client Info		23 Jan 2024	02 Mar 2023	28 Jan 2022
Machine Age	hrs	Client Info		4844	4309	3254
Oil Age	hrs	Client Info		500	1000	819
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	N/A
Sample Status				SEVERE	SEVERE	SEVERE

WEAR

Gear wear is indicated.

PQ		ASTM D8184		495	185	265
Iron	ppm	ASTM D5185m	>1250	3365	3722	4762
Chromium	ppm	ASTM D5185m	>10	25	24	36
Nickel	ppm	ASTM D5185m	>10	4	7	6
Titanium	ppm	ASTM D5185m		12	21	24
Silver	ppm	ASTM D5185m		0	0	<1
Aluminum	ppm	ASTM D5185m		125	268	247
Lead	ppm	ASTM D5185m		0	<1	1
Copper	ppm	ASTM D5185m		5	6	8
Tin	ppm	ASTM D5185m		0	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

CONTAMINATION

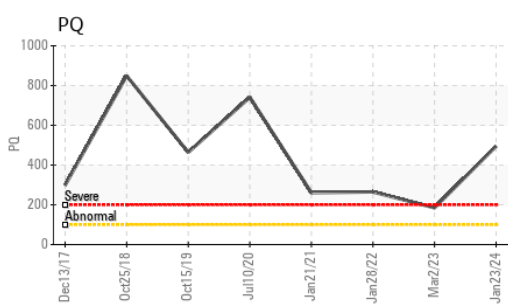
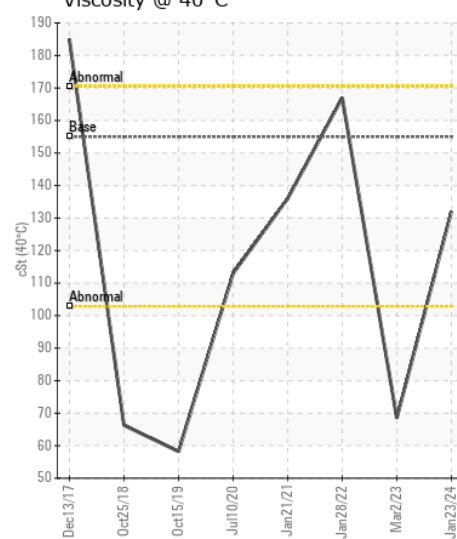
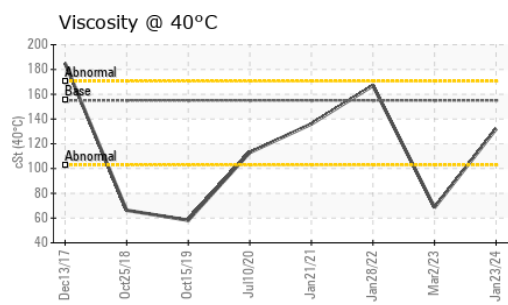
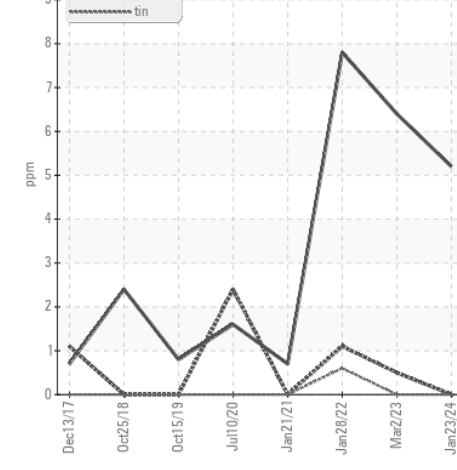
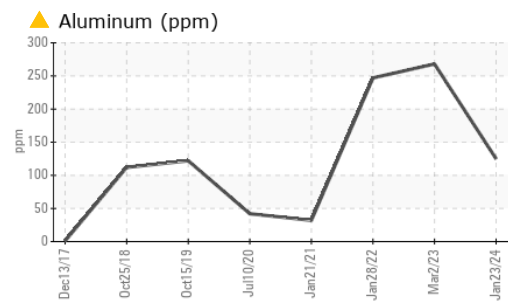
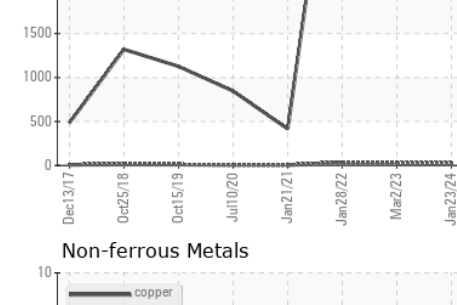
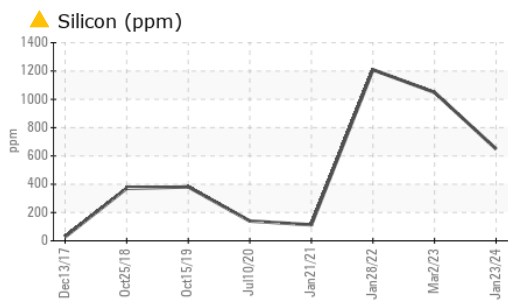
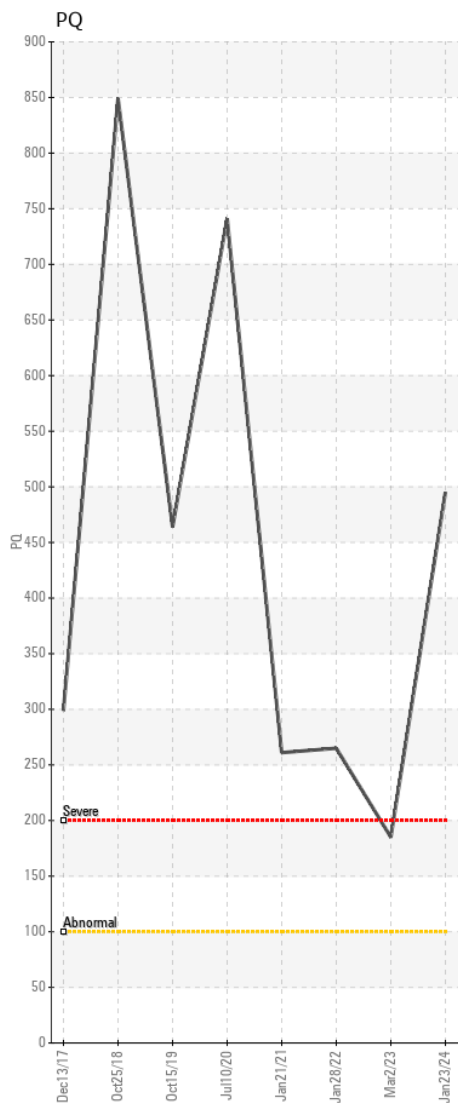
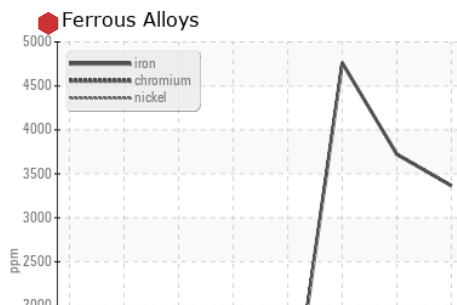
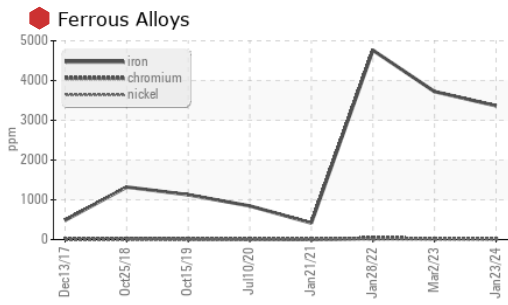
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Silicon	ppm	ASTM D5185m		649	1049	1209
Potassium	ppm	ASTM D5185m	>20	35	71	64
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

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		0	8	14
Boron	ppm	ASTM D5185m		148	47	142
Barium	ppm	ASTM D5185m		1	3	0
Molybdenum	ppm	ASTM D5185m		3	5	4
Manganese	ppm	ASTM D5185m		23	28	34
Magnesium	ppm	ASTM D5185m		31	91	24
Calcium	ppm	ASTM D5185m		497	2579	113
Phosphorus	ppm	ASTM D5185m		1036	988	781
Zinc	ppm	ASTM D5185m		191	895	33
Sulfur	ppm	ASTM D5185m		19964	13647	25056
Visc @ 40°C	cSt	ASTM D445	155	132	68.5	167



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LEC0047675 **Received** : 30 Jan 2024
Lab Number : 06075115 **Diagnosed** : 01 Feb 2024
Unique Number : 10857206 **Diagnostician** : Angela Borella
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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