



OIL ANALYSIS REPORT

WEAR	SEVERE
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Area
Store 3 - Norton

Machine Id
JOHN DEERE 250G EX45 (S/N F610651)

Component
Swing Drive

Fluid
GEAR OIL SAE 90 (--- 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.

WEAR

Gear wear is indicated.

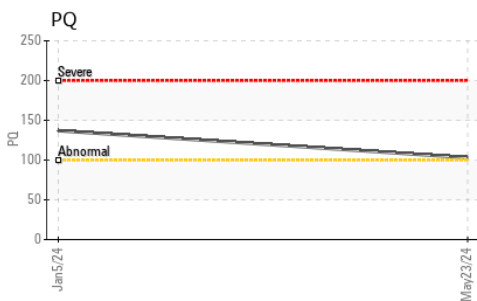
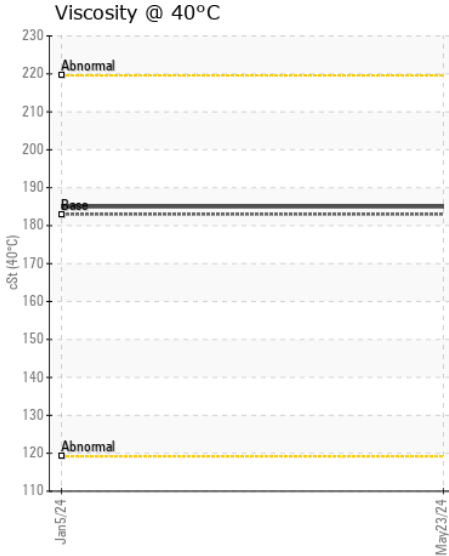
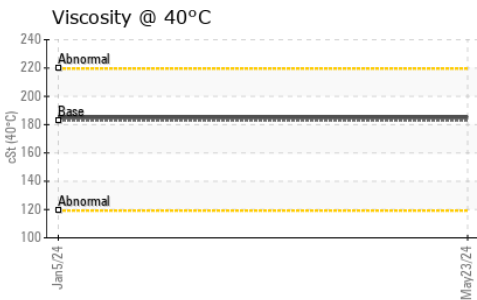
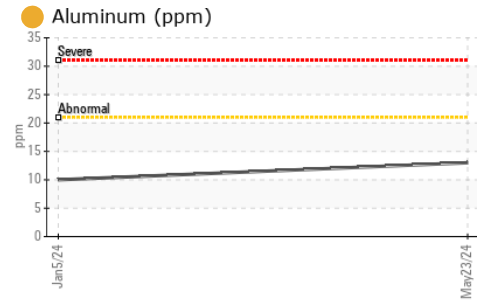
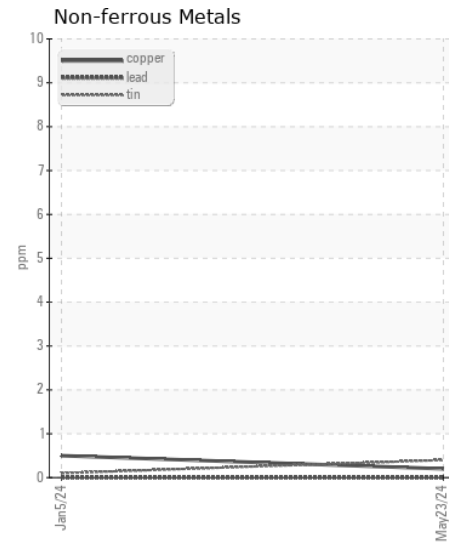
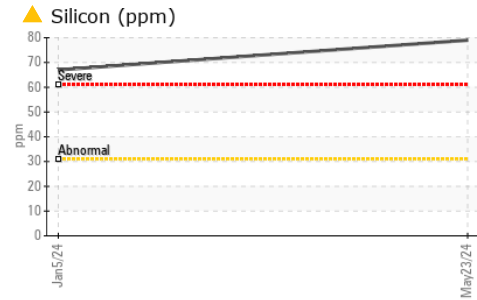
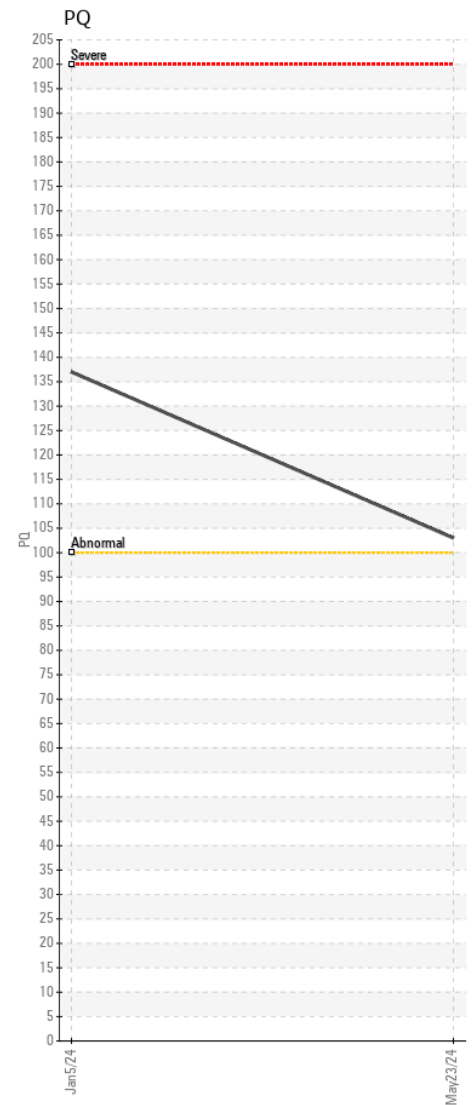
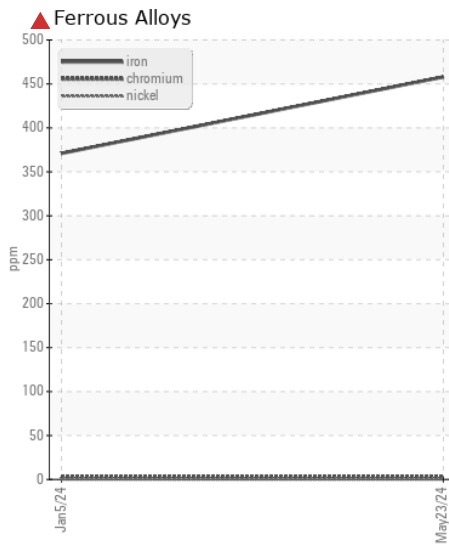
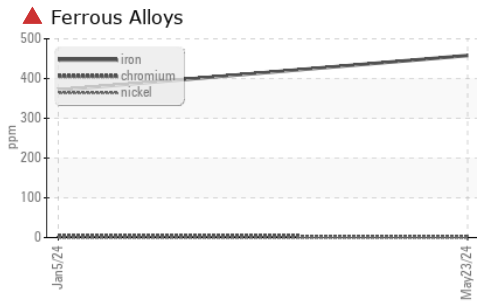
CONTAMINATION

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

FLUID CONDITION

The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LEC0049033	LEC0047684	---
Sample Date		Client Info		23 May 2024	05 Jan 2024	---
Machine Age	hrs	Client Info		5542	4605	---
Oil Age	hrs	Client Info		500	1000	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		Not Chngd	Changed	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				SEVERE	ABNORMAL	---
PQ		ASTM D8184		103	137	---
Iron	ppm	ASTM D5185m	>151	▲ 458	▲ 371	---
Chromium	ppm	ASTM D5185m	>11	3	3	---
Nickel	ppm	ASTM D5185m	>10	0	0	---
Titanium	ppm	ASTM D5185m		1	<1	---
Silver	ppm	ASTM D5185m		0	0	---
Aluminum	ppm	ASTM D5185m	>21	● 13	● 10	---
Lead	ppm	ASTM D5185m	>51	0	0	---
Copper	ppm	ASTM D5185m	>51	<1	<1	---
Tin	ppm	ASTM D5185m	>10	<1	<1	---
Vanadium	ppm	ASTM D5185m		0	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---
Silicon	ppm	ASTM D5185m	>31	▲ 79	▲ 67	---
Potassium	ppm	ASTM D5185m	>20	3	17	---
Water		WC Method	>0.1	NEG	NEG	---
Silt	scalar	*Visual	NONE	NONE	NONE	---
Debris	scalar	*Visual	NONE	LIGHT	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	---
Sodium	ppm	ASTM D5185m	>51	4	2	---
Boron	ppm	ASTM D5185m	400	86	78	---
Barium	ppm	ASTM D5185m	200	6	5	---
Molybdenum	ppm	ASTM D5185m	12	4	<1	---
Manganese	ppm	ASTM D5185m		5	4	---
Magnesium	ppm	ASTM D5185m	12	7	5	---
Calcium	ppm	ASTM D5185m	150	27	37	---
Phosphorus	ppm	ASTM D5185m	1650	574	546	---
Zinc	ppm	ASTM D5185m	125	16	21	---
Sulfur	ppm	ASTM D5185m	22500	19788	16545	---
Visc @ 40°C	cSt	ASTM D445	183	185	185	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LEC0049033 **Received** : 31 May 2024
Lab Number : 06197016 **Tested** : 03 Jun 2024
Unique Number : 11059139 **Diagnosed** : 04 Jun 2024 - Sean Felton
Test Package : CONST (Additional Tests: PQ)

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