



OIL ANALYSIS REPORT

WEAR
CONTAMINATION
FLUID CONDITION

SEVERE
SEVERE
ABNORMAL

Area
Store 4 - Fairmont [PAUL CONSTRUCTION]

Machine Id
JOHN DEERE 331G 1T0331GMCLF383265

Component
Right Final Drive

Fluid
JOHN DEERE GL-5 80W90 (--- 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		LECO046685	---	---
Sample Date		Client Info		02 Feb 2024	---	---
Machine Age	hrs	Client Info		1193	---	---
Oil Age	hrs	Client Info		500	---	---
Filter Age	hrs	Client Info		0	---	---
Oil Changed		Client Info		Changed	---	---
Filter Changed		Client Info		None	---	---
Sample Status				SEVERE	---	---

WEAR

Gear wear is indicated.

PQ		ASTM D8184	>1250	1587	---	---
Iron	ppm	ASTM D5185m	>750	2479	---	---
Chromium	ppm	ASTM D5185m	>9	23	---	---
Nickel	ppm	ASTM D5185m	>10	11	---	---
Titanium	ppm	ASTM D5185m		18	---	---
Silver	ppm	ASTM D5185m		0	---	---
Aluminum	ppm	ASTM D5185m	>40	240	---	---
Lead	ppm	ASTM D5185m	>15	0	---	---
Copper	ppm	ASTM D5185m	>40	2	---	---
Tin	ppm	ASTM D5185m	>10	0	---	---
Vanadium	ppm	ASTM D5185m		<1	---	---
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---

CONTAMINATION

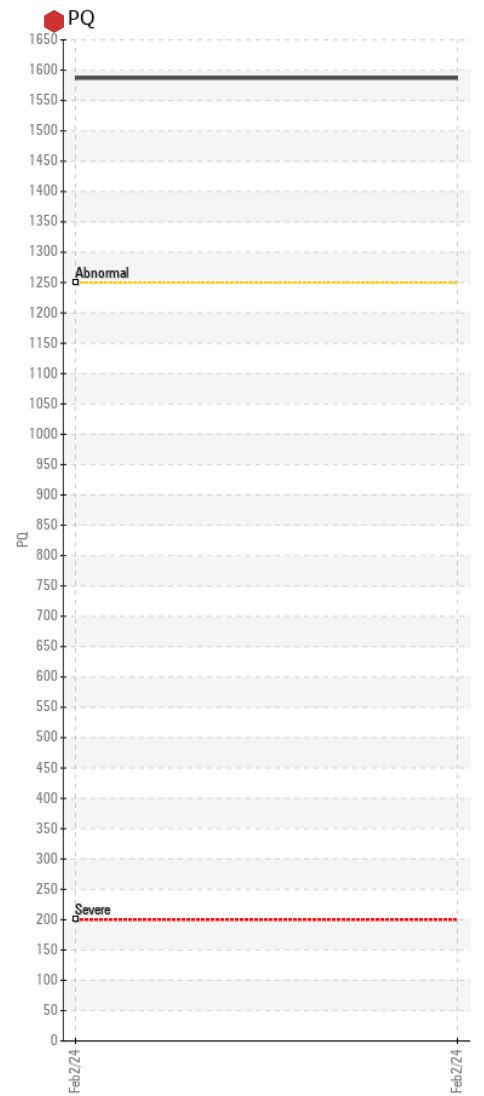
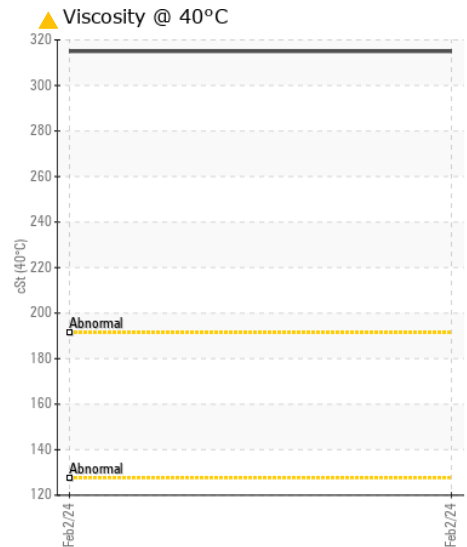
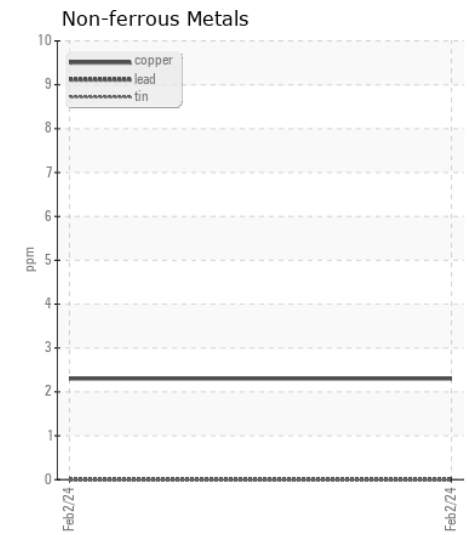
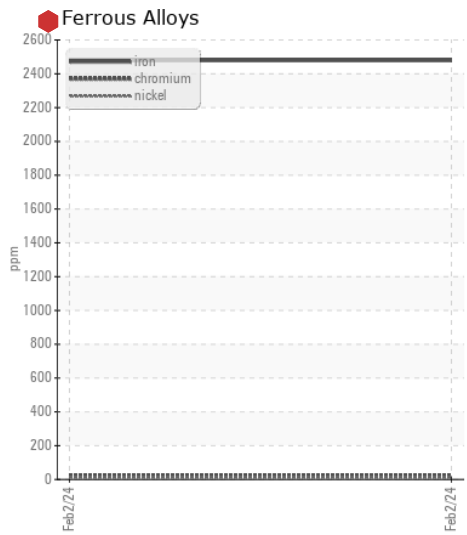
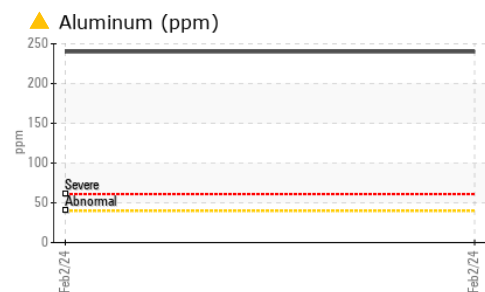
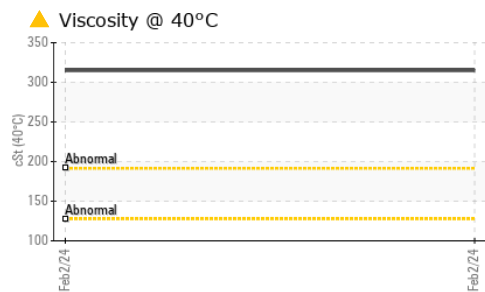
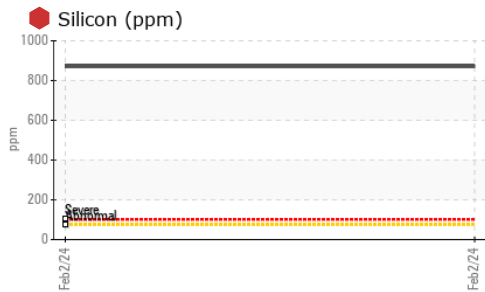
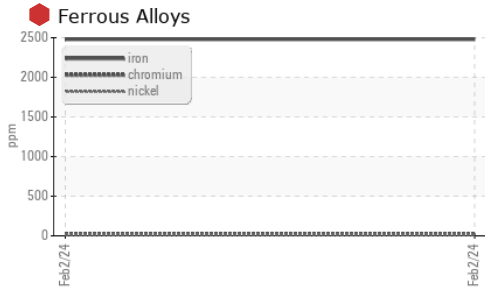
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Silicon	ppm	ASTM D5185m	>75	871	---	---
Potassium	ppm	ASTM D5185m	>20	61	---	---
Water		WC Method	>0.075	NEG	---	---
Silt	scalar	*Visual	NONE	NONE	---	---
Debris	scalar	*Visual	NONE	NONE	---	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---	---
Appearance	scalar	*Visual	NORML	NORML	---	---
Odor	scalar	*Visual	NORML	NORML	---	---
Emulsified Water	scalar	*Visual	>0.075	NEG	---	---

FLUID CONDITION

The oil viscosity is higher than normal.

Sodium	ppm	ASTM D5185m	>51	5	---	---
Boron	ppm	ASTM D5185m		24	---	---
Barium	ppm	ASTM D5185m		17	---	---
Molybdenum	ppm	ASTM D5185m		3	---	---
Manganese	ppm	ASTM D5185m		27	---	---
Magnesium	ppm	ASTM D5185m		18	---	---
Calcium	ppm	ASTM D5185m		65	---	---
Phosphorus	ppm	ASTM D5185m		332	---	---
Zinc	ppm	ASTM D5185m		2	---	---
Sulfur	ppm	ASTM D5185m		20043	---	---
Visc @ 40°C	cSt	ASTM D445		315	---	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LEC0046685 **Received** : 07 Feb 2024
Lab Number : 06082747 **Tested** : 08 Feb 2024
Unique Number : 10870192 **Diagnosed** : 08 Feb 2024 - Doug Bogart
Test Package : CONST (Additional Tests: PQ)

LESLIE EQUIPMENT COMPANY
 105 TENNIS CENTER DR.
 MARIETTA, OH
 US 45750-9765
 Contact: LEANNE KENDALL
 KendalLeanne@lec1.com

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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