



OIL ANALYSIS REPORT

WEAR	SEVERE
CONTAMINATION	SEVERE
FLUID CONDITION	NORMAL



Area
Store 9 - Marietta
Machine Id
JOHN DEERE 323E 1T0323EBCGJ301272
Component
Right Propel Gearbox
Fluid
JOHN DEERE GL-5 80W90 (27 Oz)

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		LEC0048113	---	---
Sample Date		Client Info		07 Feb 2024	---	---
Machine Age	hrs	Client Info		1650	---	---
Oil Age	hrs	Client Info		1650	---	---
Filter Age	hrs	Client Info		0	---	---
Oil Changed		Client Info		Changed	---	---
Filter Changed		Client Info		None	---	---
Sample Status				SEVERE	---	---

WEAR

Gear wear is indicated. Component wear metal level(s) high for break in.

PQ		ASTM D8184		2197	---	---
Iron	ppm	ASTM D5185m	>1250	8413	---	---
Chromium	ppm	ASTM D5185m	>10	68	---	---
Nickel	ppm	ASTM D5185m	>10	45	---	---
Titanium	ppm	ASTM D5185m		19	---	---
Silver	ppm	ASTM D5185m		0	---	---
Aluminum	ppm	ASTM D5185m		236	---	---
Lead	ppm	ASTM D5185m		2	---	---
Copper	ppm	ASTM D5185m		15	---	---
Tin	ppm	ASTM D5185m		1	---	---
Vanadium	ppm	ASTM D5185m		4	---	---
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---

CONTAMINATION

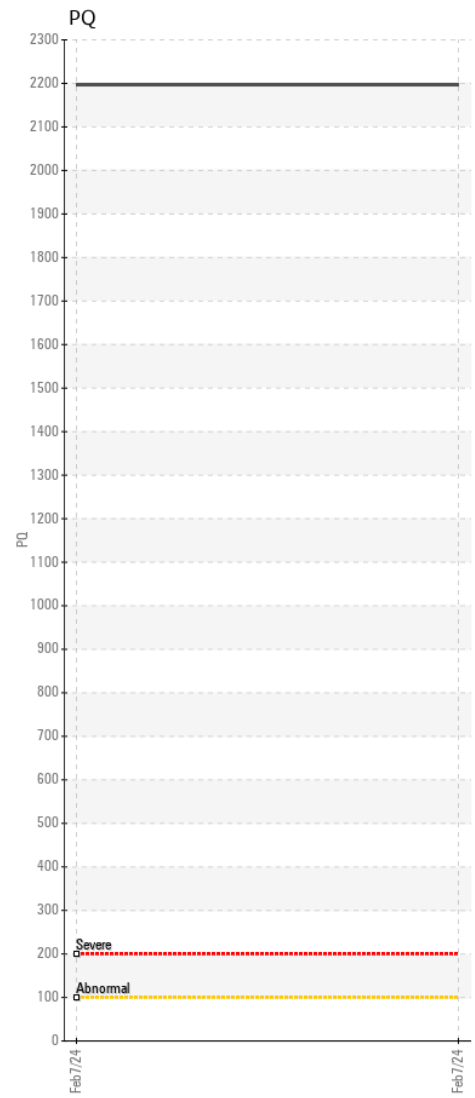
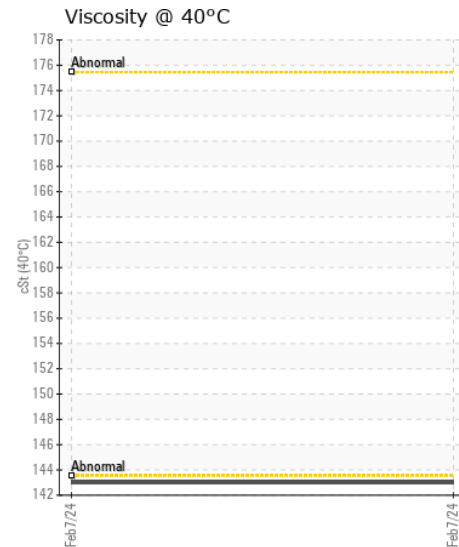
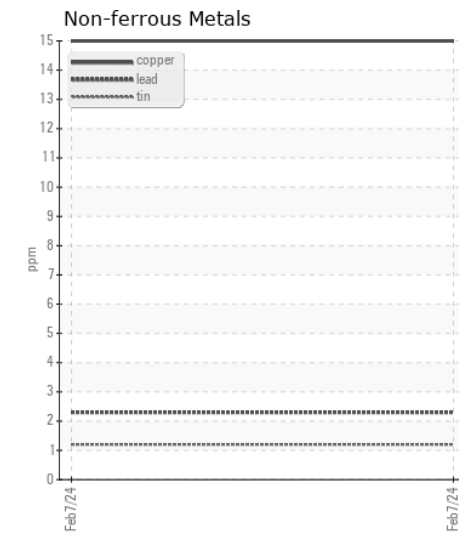
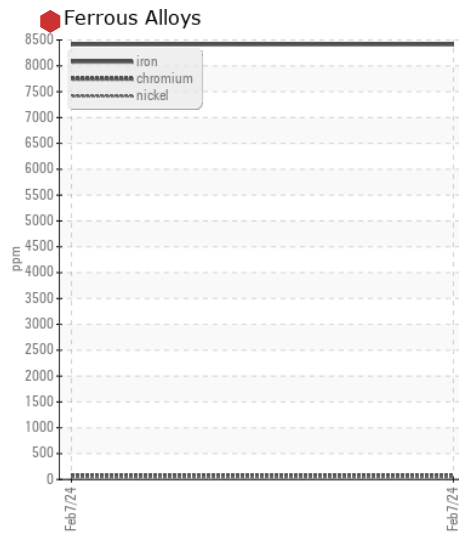
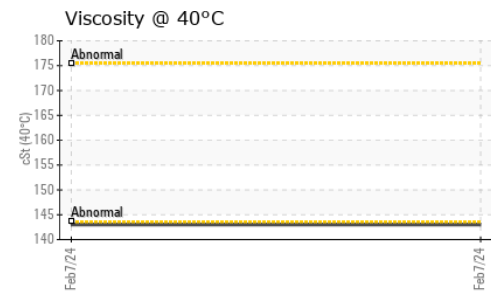
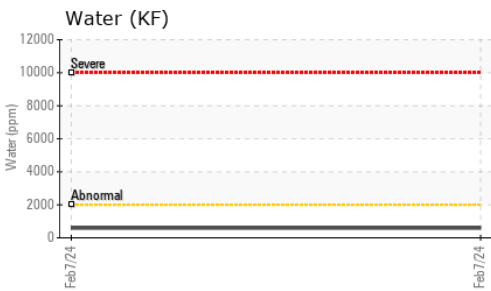
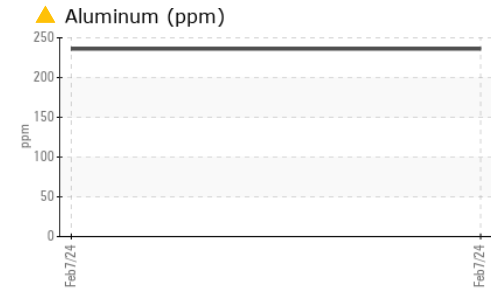
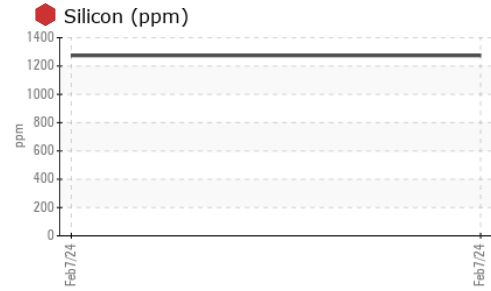
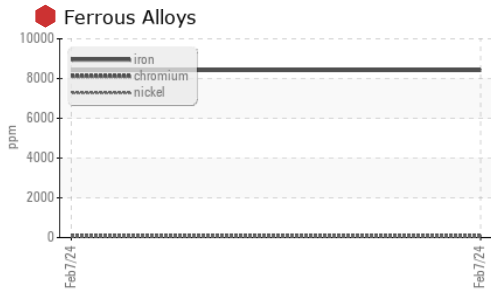
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Silicon	ppm	ASTM D5185m		1274	---	---
Potassium	ppm	ASTM D5185m	>20	85	---	---
Water	%	ASTM D6304	>0.2	0.059	---	---
ppm Water	ppm	ASTM D6304	>2000	590	---	---
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	>0.2	0.2%	---	---

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		67	---	---
Boron	ppm	ASTM D5185m		103	---	---
Barium	ppm	ASTM D5185m		39	---	---
Molybdenum	ppm	ASTM D5185m		12	---	---
Manganese	ppm	ASTM D5185m		59	---	---
Magnesium	ppm	ASTM D5185m		154	---	---
Calcium	ppm	ASTM D5185m		451	---	---
Phosphorus	ppm	ASTM D5185m		697	---	---
Zinc	ppm	ASTM D5185m		86	---	---
Sulfur	ppm	ASTM D5185m		20479	---	---
Visc @ 40°C	cSt	ASTM D445		143	---	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LEC0048113 **Received** : 09 Feb 2024
Lab Number : 06085047 **Tested** : 12 Feb 2024
Unique Number : 10872492 **Diagnosed** : 12 Feb 2024 - Don Baldrige
Test Package : CONST (Additional Tests: KF, 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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