



# OIL ANALYSIS REPORT

WEAR	<b>SEVERE</b>
CONTAMINATION	<b>ABNORMAL</b>
FLUID CONDITION	<b>NORMAL</b>



Area  
**Store 9 - Marietta**  
Machine Id  
**JOHN DEERE 323E 1T0323EBCGJ301272**  
Component  
**Left 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		LEC0048131	---	---
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		216	---	---
Iron	ppm	ASTM D5185m	>1250	3738	---	---
Chromium	ppm	ASTM D5185m	>10	37	---	---
Nickel	ppm	ASTM D5185m	>10	23	---	---
Titanium	ppm	ASTM D5185m		5	---	---
Silver	ppm	ASTM D5185m		0	---	---
Aluminum	ppm	ASTM D5185m		57	---	---
Lead	ppm	ASTM D5185m		1	---	---
Copper	ppm	ASTM D5185m		8	---	---
Tin	ppm	ASTM D5185m		<1	---	---
Vanadium	ppm	ASTM D5185m		2	---	---
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---

## CONTAMINATION

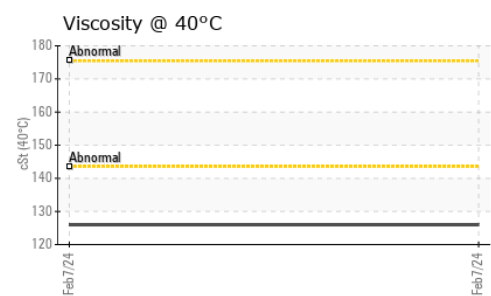
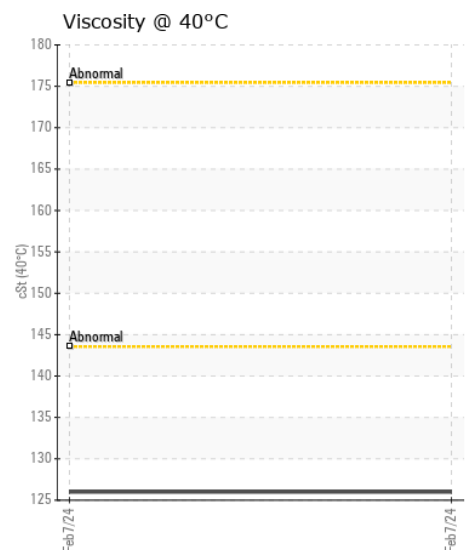
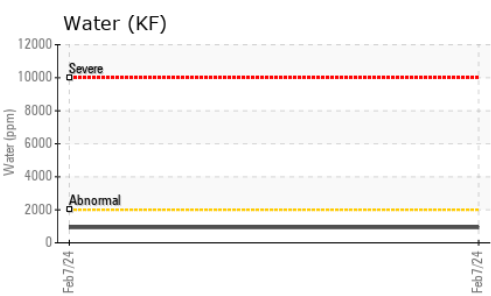
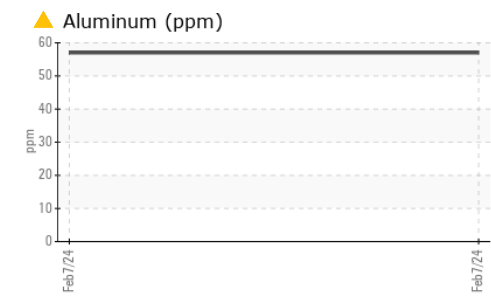
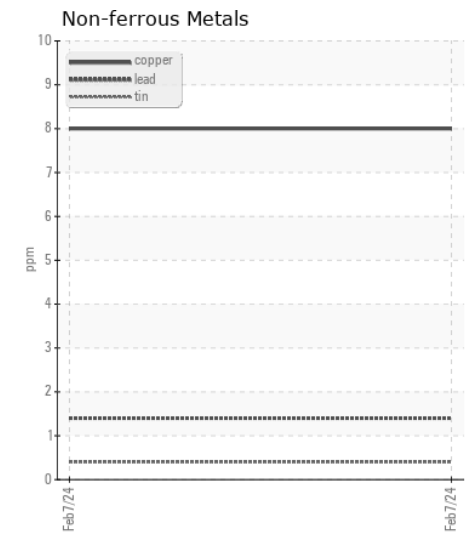
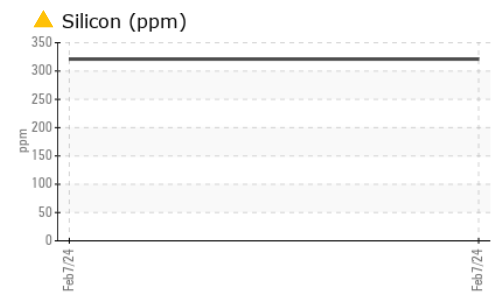
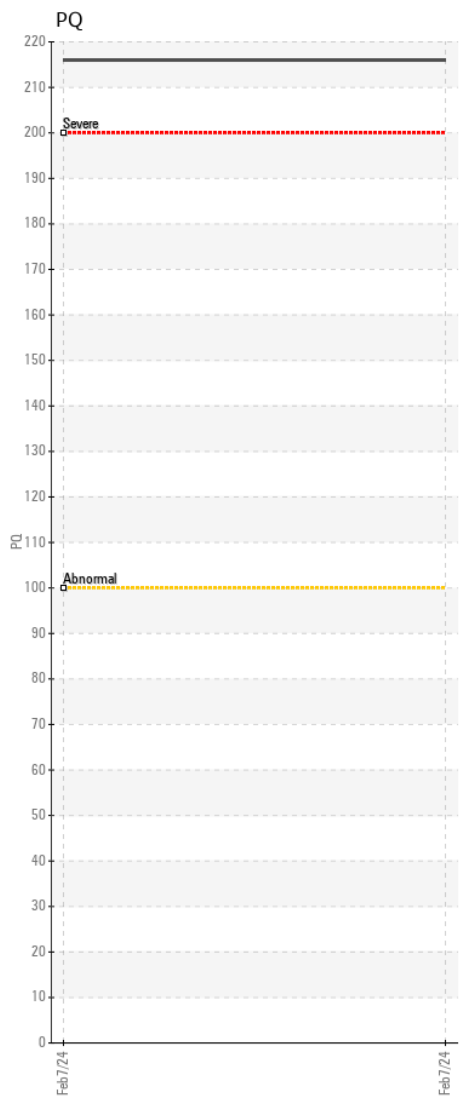
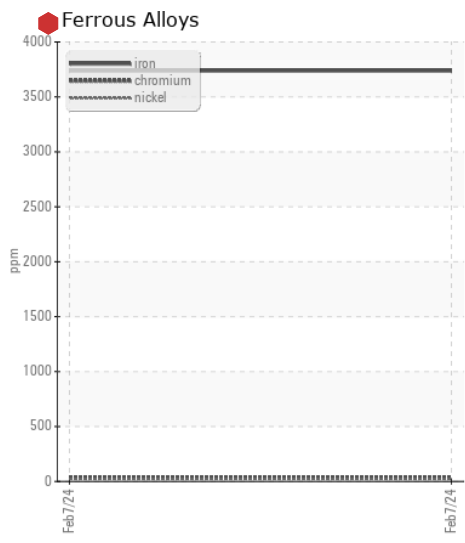
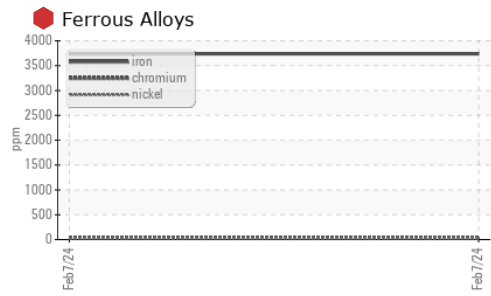
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Silicon	ppm	ASTM D5185m		321	---	---
Potassium	ppm	ASTM D5185m	>20	24	---	---
Water	%	ASTM D6304	>0.2	0.093	---	---
ppm Water	ppm	ASTM D6304	>2000	930	---	---
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		37	---	---
Boron	ppm	ASTM D5185m		69	---	---
Barium	ppm	ASTM D5185m		33	---	---
Molybdenum	ppm	ASTM D5185m		5	---	---
Manganese	ppm	ASTM D5185m		27	---	---
Magnesium	ppm	ASTM D5185m		62	---	---
Calcium	ppm	ASTM D5185m		178	---	---
Phosphorus	ppm	ASTM D5185m		665	---	---
Zinc	ppm	ASTM D5185m		60	---	---
Sulfur	ppm	ASTM D5185m		20613	---	---
Visc @ 40°C	cSt	ASTM D445		126	---	---



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : LEC0048131 **Received** : 09 Feb 2024  
**Lab Number** : 06085051 **Tested** : 12 Feb 2024  
**Unique Number** : 10872496 **Diagnosed** : 12 Feb 2024 - Don Baldrige  
**Test Package** : CONST ( Additional Tests: KF, PQ )

**LESLIE EQUIPMENT COMPANY**  
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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)