



# OIL ANALYSIS REPORT

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

Area  
**Store 5 - Cross Lanes [150047]**  
 Machine Id  
**John Deere 323E 1T0323EBVEJ263385**  
 Component  
**Left Planetary**  
 Fluid  
**JOHN DEERE GL-5 80W90 (27 Oz)**

## RECOMMENDATION

We advise that you check all areas where dirt can enter the system. We advise that you check for the source of water entry. 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.

## WEAR

The iron level is severe. Gear wear is indicated. The high ferrous density (PQ) index indicates that abnormal wear is occurring.

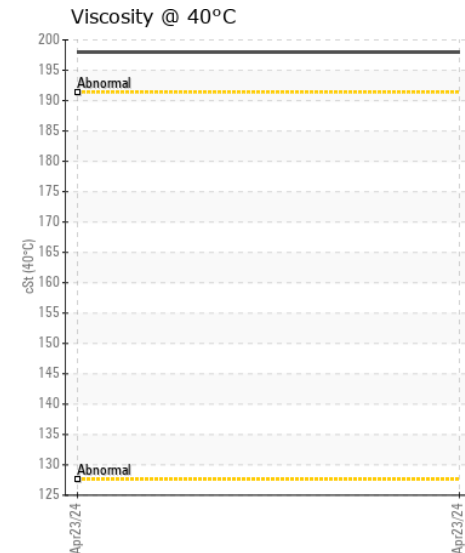
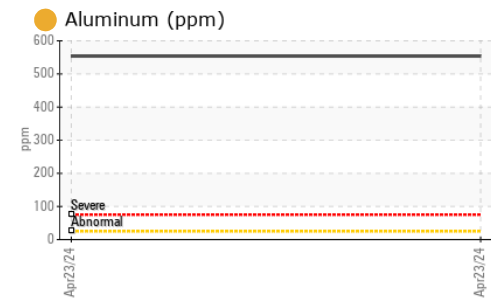
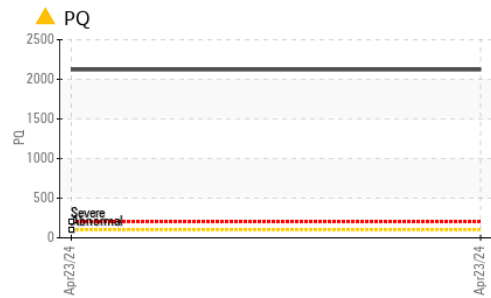
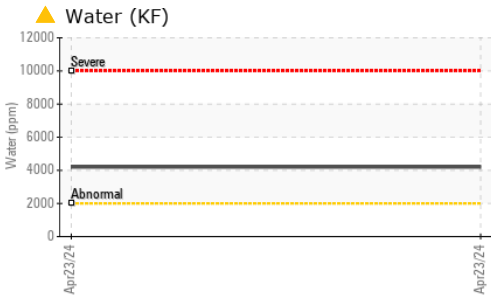
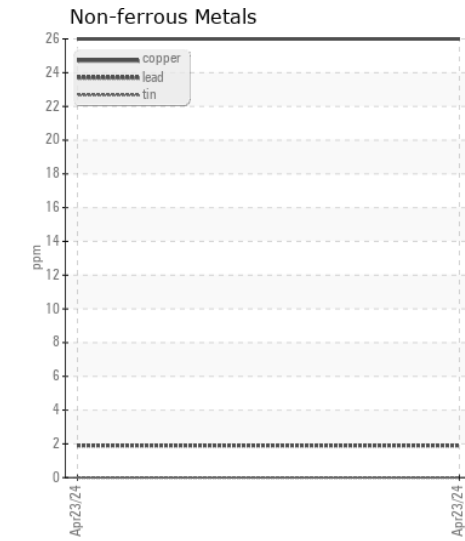
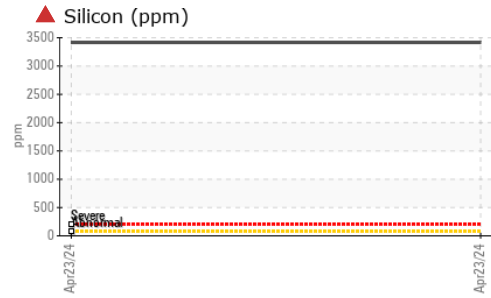
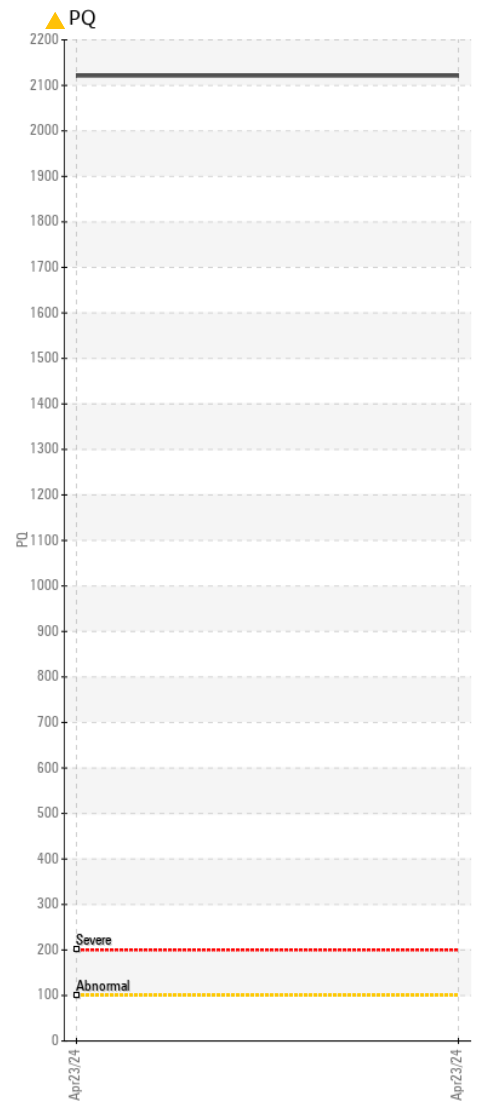
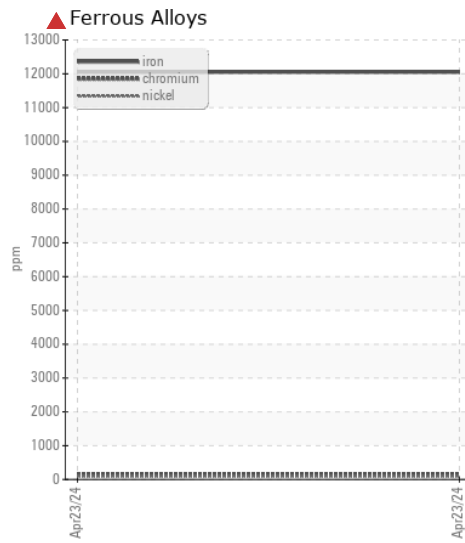
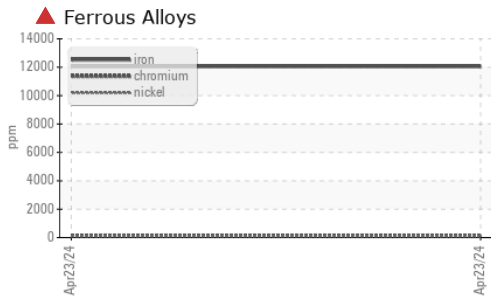
## CONTAMINATION

Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. There is a moderate concentration of water present in the oil.

## FLUID CONDITION

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

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LEC0047567	---	---
Sample Date		Client Info		23 Apr 2024	---	---
Machine Age	hrs	Client Info		1749	---	---
Oil Age	hrs	Client Info		1749	---	---
Filter Age	hrs	Client Info		0	---	---
Oil Changed		Client Info		Changed	---	---
Filter Changed		Client Info		N/A	---	---
Sample Status				SEVERE	---	---
PQ		ASTM D8184		▲ 2121	---	---
Iron	ppm	ASTM D5185m	>500	▲ 12051	---	---
Chromium	ppm	ASTM D5185m	>10	▲ 149	---	---
Nickel	ppm	ASTM D5185m	>10	▲ 94	---	---
Titanium	ppm	ASTM D5185m		48	---	---
Silver	ppm	ASTM D5185m		0	---	---
Aluminum	ppm	ASTM D5185m	>25	● 554	---	---
Lead	ppm	ASTM D5185m	>25	2	---	---
Copper	ppm	ASTM D5185m	>75	26	---	---
Tin	ppm	ASTM D5185m	>10	0	---	---
Vanadium	ppm	ASTM D5185m		8	---	---
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---
Silicon	ppm	ASTM D5185m	>75	▲ 3417	---	---
Potassium	ppm	ASTM D5185m	>20	162	---	---
Water	%	ASTM D6304	>0.2	▲ 0.420	---	---
ppm Water	ppm	ASTM D6304	>2000	▲ 4200	---	---
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%	---	---
Sodium	ppm	ASTM D5185m		53	---	---
Boron	ppm	ASTM D5185m		143	---	---
Barium	ppm	ASTM D5185m		47	---	---
Molybdenum	ppm	ASTM D5185m		27	---	---
Manganese	ppm	ASTM D5185m		104	---	---
Magnesium	ppm	ASTM D5185m		90	---	---
Calcium	ppm	ASTM D5185m		582	---	---
Phosphorus	ppm	ASTM D5185m		760	---	---
Zinc	ppm	ASTM D5185m		96	---	---
Sulfur	ppm	ASTM D5185m		64543	---	---
Visc @ 40°C	cSt	ASTM D445		198	---	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : LEC0047567 **Received** : 26 Apr 2024  
**Lab Number** : 06161760 **Tested** : 30 Apr 2024  
**Unique Number** : 10997183 **Diagnosed** : 30 Apr 2024 - Sean Felton  
**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)

T:  
 F: (740)373-5570