



# OIL ANALYSIS REPORT

WEAR  
CONTAMINATION  
FLUID CONDITION

**ATTENTION**  
**ABNORMAL**  
**NORMAL**

Area  
**Store 4 - Fairmont [152344]**  
Machine Id  
**JOHN DEERE 859M 1T0859MXJRL458097**  
Component  
**Right Propel Gearbox**  
Fluid  
**JOHN DEERE GL-5 80W90 (2 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. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LEC0049898	---	---
Sample Date		Client Info		24 Jun 2024	---	---
Machine Age	hrs	Client Info		762	---	---
Oil Age	hrs	Client Info		762	---	---
Filter Age	hrs	Client Info		762	---	---
Oil Changed		Client Info		Changed	---	---
Filter Changed		Client Info		Not Chngd	---	---
Sample Status				ABNORMAL	---	---

## WEAR

All component wear rates are normal.

PQ		ASTM D8184		302	---	---
Iron	ppm	ASTM D5185m	>1250	464	---	---
Chromium	ppm	ASTM D5185m	>10	9	---	---
Nickel	ppm	ASTM D5185m	>10	<1	---	---
Titanium	ppm	ASTM D5185m		2	---	---
Silver	ppm	ASTM D5185m		0	---	---
Aluminum	ppm	ASTM D5185m		28	---	---
Lead	ppm	ASTM D5185m		3	---	---
Copper	ppm	ASTM D5185m		23	---	---
Tin	ppm	ASTM D5185m		0	---	---
Vanadium	ppm	ASTM D5185m		0	---	---
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---

## CONTAMINATION

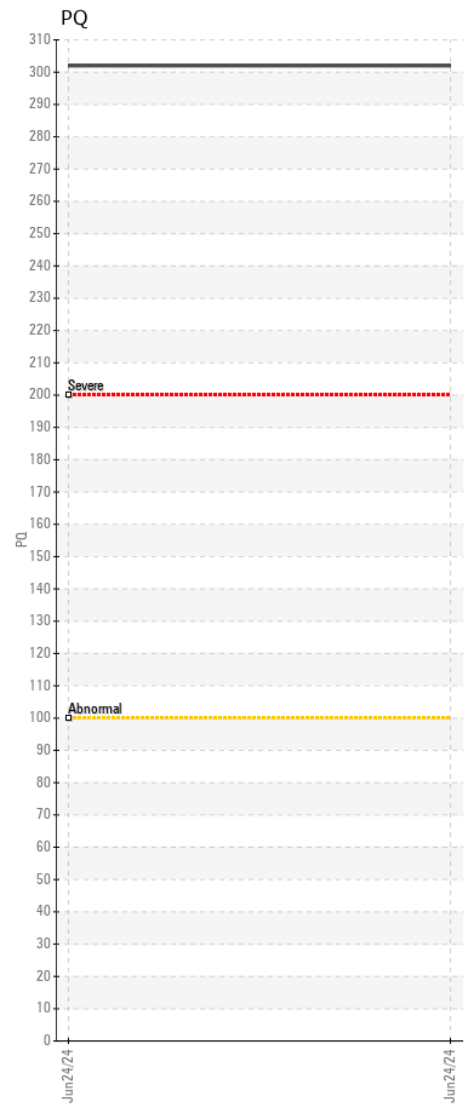
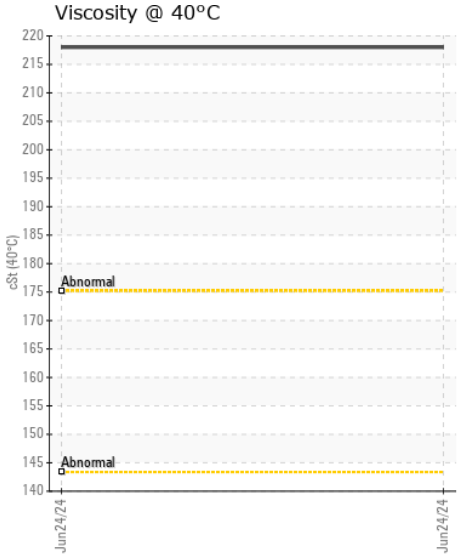
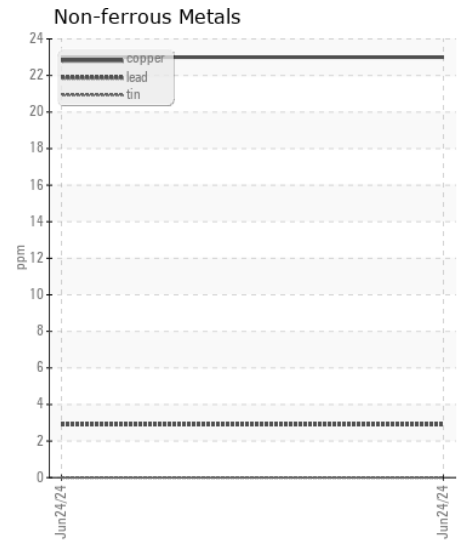
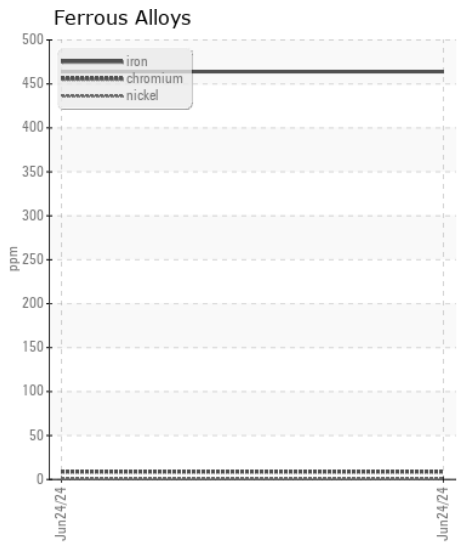
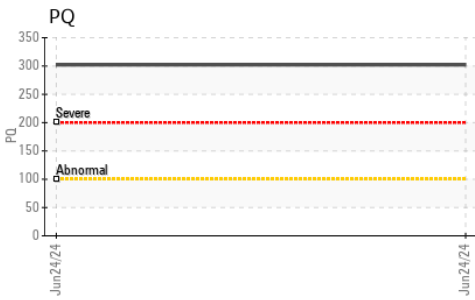
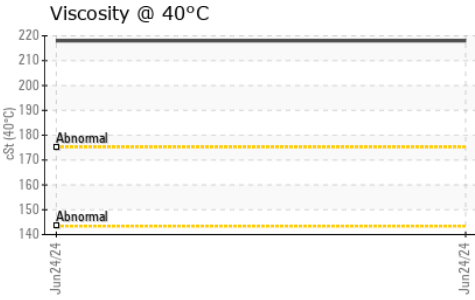
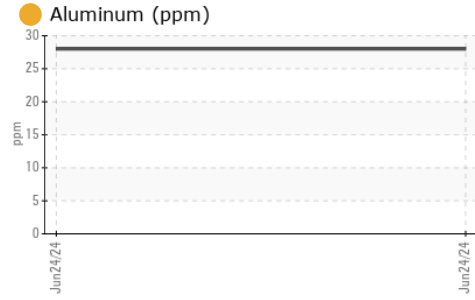
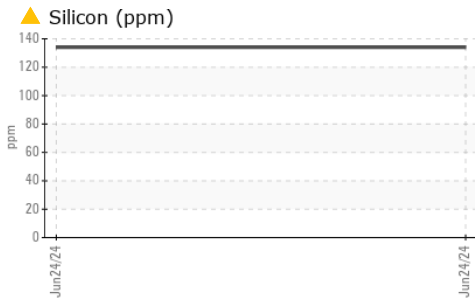
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Silicon	ppm	ASTM D5185m		134	---	---
Potassium	ppm	ASTM D5185m	>20	7	---	---
Water		WC Method	>0.2	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	>0.2	NEG	---	---

## FLUID CONDITION

The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		5	---	---
Boron	ppm	ASTM D5185m		485	---	---
Barium	ppm	ASTM D5185m		33	---	---
Molybdenum	ppm	ASTM D5185m		0	---	---
Manganese	ppm	ASTM D5185m		8	---	---
Magnesium	ppm	ASTM D5185m		984	---	---
Calcium	ppm	ASTM D5185m		59	---	---
Phosphorus	ppm	ASTM D5185m		1735	---	---
Zinc	ppm	ASTM D5185m		22	---	---
Sulfur	ppm	ASTM D5185m		27024	---	---
Visc @ 40°C	cSt	ASTM D445		218	---	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : LEC0049898 **Received** : 26 Jun 2024  
**Lab Number** : 06221540 **Tested** : 27 Jun 2024  
**Unique Number** : 11099737 **Diagnosed** : 28 Jun 2024 - Don Baldrige  
**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)

T:  
 F: (740)373-5570