



OIL ANALYSIS REPORT

WEAR	SEVERE
CONTAMINATION	ABNORMAL
FLUID CONDITION	ATTENTION



Area
Store 9 - Marietta [149757]
Machine Id
JOHN DEERE 333G 1T0333GMCKF367402
Component
Right Propel Gearbox
Fluid
JOHN DEERE GL-5 80W90 (1 QTS)

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. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LEC0047549	LEC0011581	---
Sample Date		Client Info		12 Apr 2024	27 Mar 2020	---
Machine Age	hrs	Client Info		1096	438	---
Oil Age	hrs	Client Info		658	438	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		N/A	N/A	---
Sample Status				SEVERE	ABNORMAL	---

WEAR

Gear wear is indicated.

PQ		ASTM D8184		59	271	---
Iron	ppm	ASTM D5185m	>1250	▲ 2874	▲ 1282	---
Chromium	ppm	ASTM D5185m	>10	▲ 30	19	---
Nickel	ppm	ASTM D5185m	>10	▲ 10	6	---
Titanium	ppm	ASTM D5185m		5	4	---
Silver	ppm	ASTM D5185m		0	0	---
Aluminum	ppm	ASTM D5185m		● 74	● 44	---
Lead	ppm	ASTM D5185m		<1	<1	---
Copper	ppm	ASTM D5185m		3	2	---
Tin	ppm	ASTM D5185m		0	0	---
Vanadium	ppm	ASTM D5185m		<1	<1	---
White Metal	scalar	*Visual	NONE	NONE	LIGHT	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

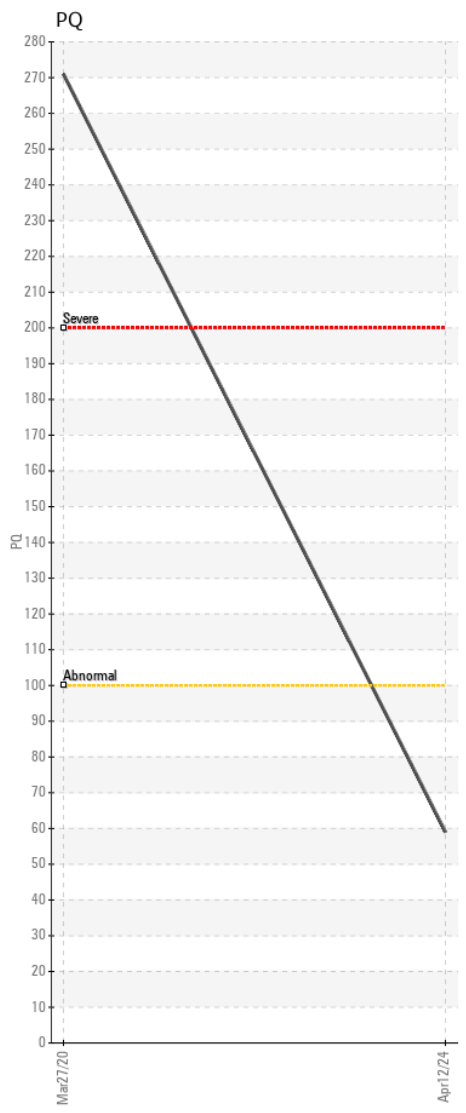
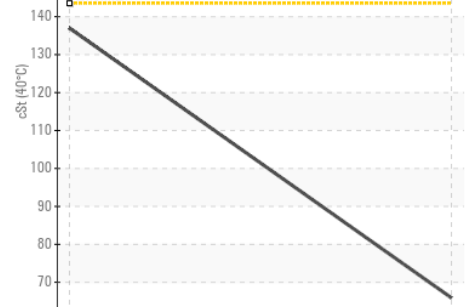
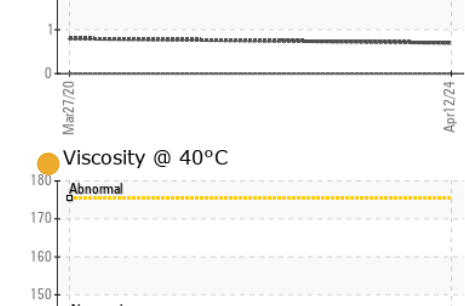
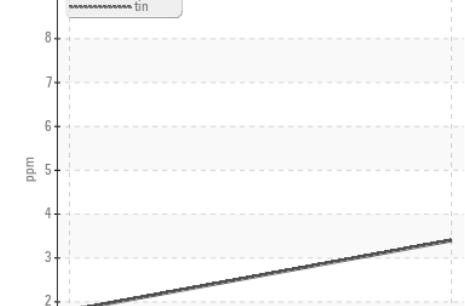
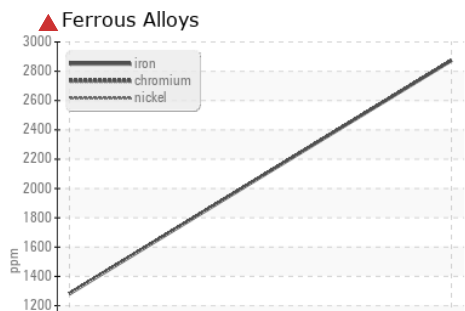
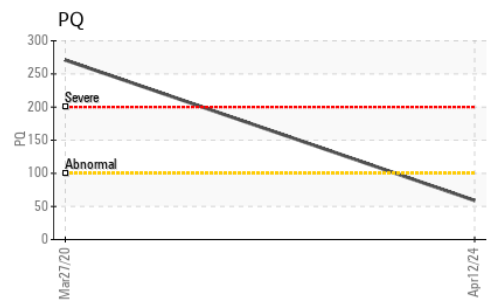
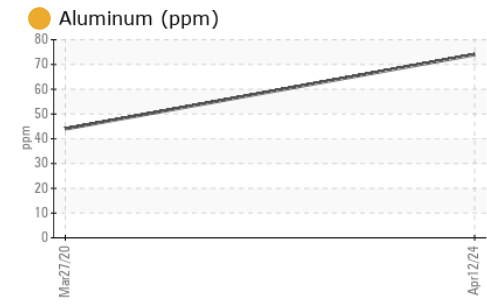
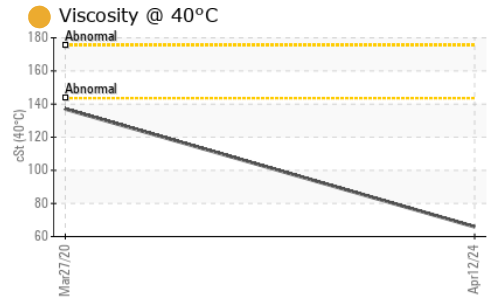
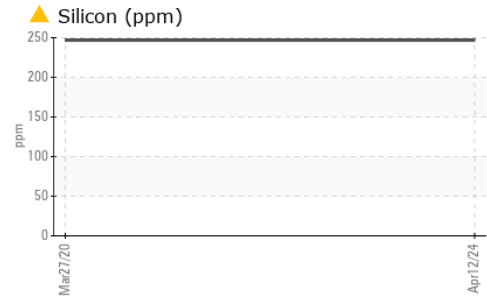
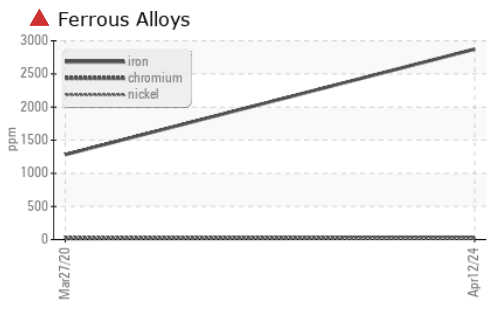
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Silicon	ppm	ASTM D5185m		▲ 247	▲ 247	---
Potassium	ppm	ASTM D5185m	>20	59	44	---
Water		WC Method	>0.2	NEG	NEG	---
Silt	scalar	*Visual	NONE	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	---

FLUID CONDITION

The oil viscosity is lower than normal. The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		15	18	---
Boron	ppm	ASTM D5185m		118	104	---
Barium	ppm	ASTM D5185m		66	99	---
Molybdenum	ppm	ASTM D5185m		17	0	---
Manganese	ppm	ASTM D5185m		27	15	---
Magnesium	ppm	ASTM D5185m		150	8	---
Calcium	ppm	ASTM D5185m		3797	32	---
Phosphorus	ppm	ASTM D5185m		1540	833	---
Zinc	ppm	ASTM D5185m		1511	23	---
Sulfur	ppm	ASTM D5185m		13757	19115	---
Visc @ 40°C	cSt	ASTM D445		● 65.9	137	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LEC0047549 **Received** : 16 Apr 2024
Lab Number : 06151340 **Tested** : 18 Apr 2024
Unique Number : 10981418 **Diagnosed** : 19 Apr 2024 - Sean Felton
Test Package : CONST (Additional Tests: PQ)

LESLIE EQUIPMENT COMPANY
 105 TENNIS CENTER DR.
 MARIETTA, OH
 US 45750-9765
 Contact: LEANNE KENDALL
 KendalLeanne@lec1.com
 T:
 F: (740)373-5570

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)