



OIL ANALYSIS REPORT

WEAR
CONTAMINATION
FLUID CONDITION

SEVERE
SEVERE
ATTENTION



Area
Store 9 - Marietta [149757]
Machine Id
JOHN DEERE 333G 1T0333GMCKF367402
Component
Left 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. We recommend an early resample to monitor this condition.

WEAR

Gear wear is indicated.

CONTAMINATION

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

FLUID CONDITION

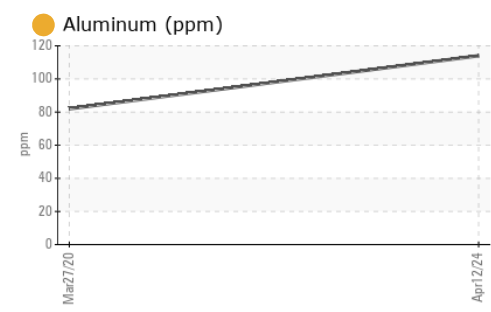
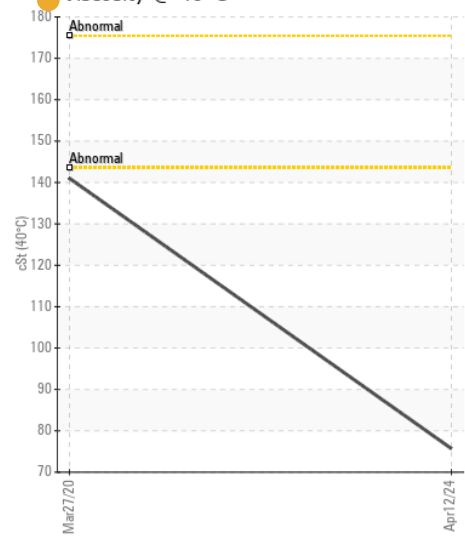
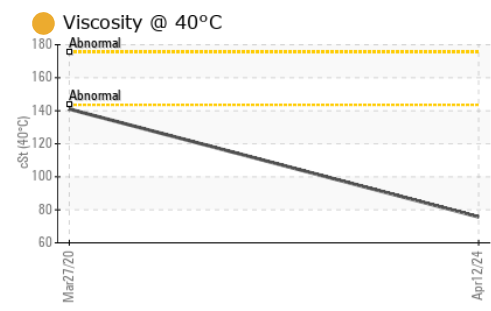
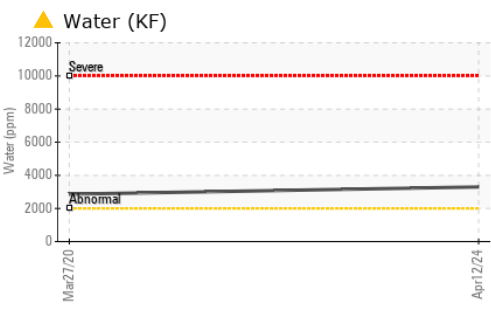
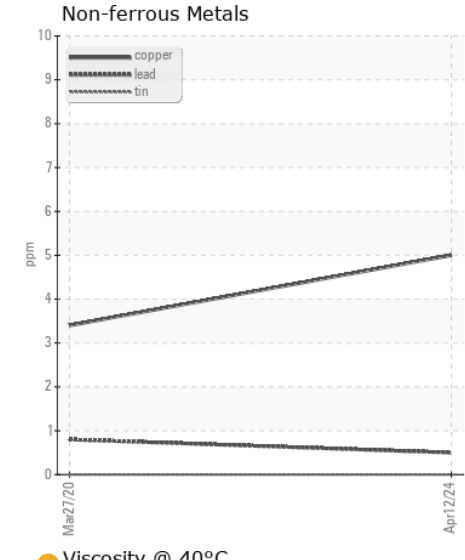
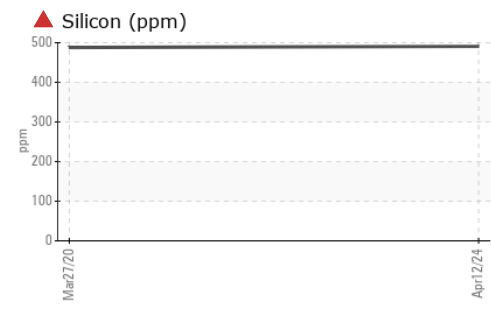
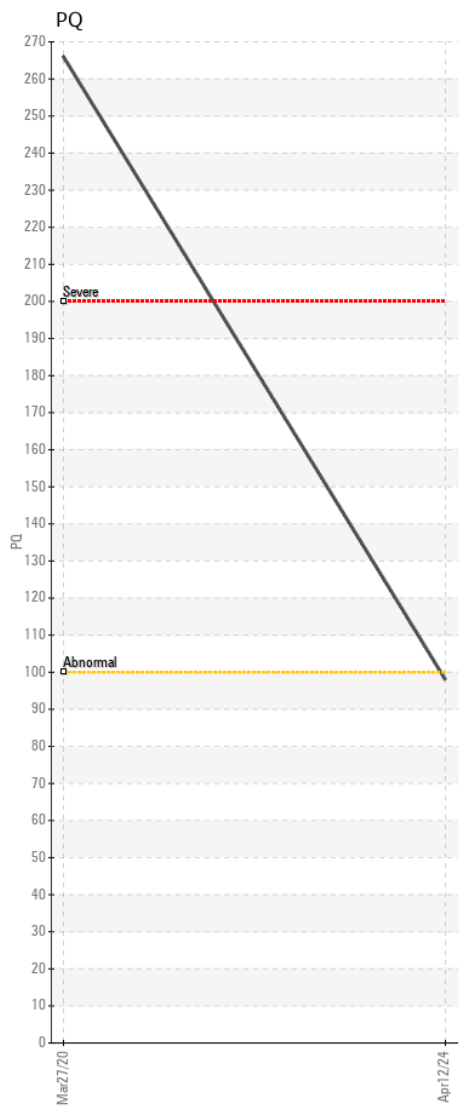
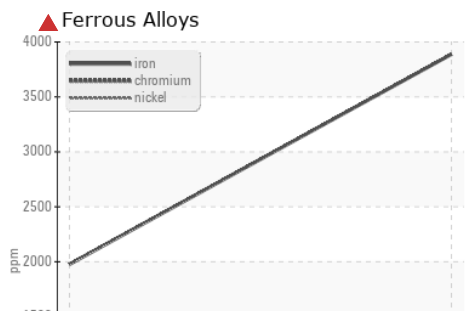
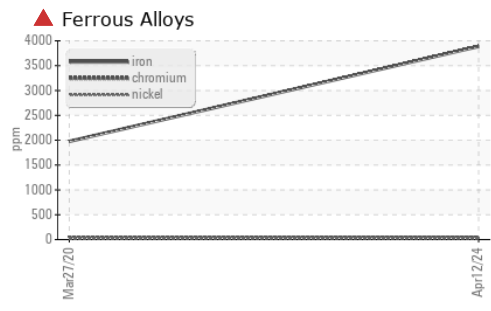
The oil viscosity is lower than normal. The oil is no longer serviceable due to the presence of contaminants.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LEC0047548	LEC0011580	---
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	---

PQ		ASTM D8184		98	266	---
Iron	ppm	ASTM D5185m	>1250	▲ 3888	▲ 1976	---
Chromium	ppm	ASTM D5185m	>10	▲ 42	▲ 34	---
Nickel	ppm	ASTM D5185m	>10	▲ 21	16	---
Titanium	ppm	ASTM D5185m		9	7	---
Silver	ppm	ASTM D5185m		0	0	---
Aluminum	ppm	ASTM D5185m		● 114	● 82	---
Lead	ppm	ASTM D5185m		<1	<1	---
Copper	ppm	ASTM D5185m		5	3	---
Tin	ppm	ASTM D5185m		0	0	---
Vanadium	ppm	ASTM D5185m		2	2	---
White Metal	scalar	*Visual	NONE	NONE	LIGHT	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

Silicon	ppm	ASTM D5185m		▲ 491	▲ 488	---
Potassium	ppm	ASTM D5185m	>20	60	56	---
Water	%	ASTM D6304	>0.2	▲ 0.330	▲ 0.286	---
ppm Water	ppm	ASTM D6304	>2000	▲ 3300	▲ 2860	---
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	0.2%	0.2%	---

Sodium	ppm	ASTM D5185m		13	21	---
Boron	ppm	ASTM D5185m		89	123	---
Barium	ppm	ASTM D5185m		43	98	---
Molybdenum	ppm	ASTM D5185m		14	0	---
Manganese	ppm	ASTM D5185m		35	21	---
Magnesium	ppm	ASTM D5185m		91	13	---
Calcium	ppm	ASTM D5185m		2307	40	---
Phosphorus	ppm	ASTM D5185m		1063	834	---
Zinc	ppm	ASTM D5185m		907	26	---
Sulfur	ppm	ASTM D5185m		17257	22302	---
Visc @ 40°C	cSt	ASTM D445		● 75.7	141	---



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LEC0047548 **Received** : 16 Apr 2024
Lab Number : 06151339 **Tested** : 19 Apr 2024
Unique Number : 10981417 **Diagnosed** : 19 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
 T:
 F: (740)373-5570

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)