



OIL ANALYSIS REPORT

WEAR	SEVERE
CONTAMINATION	ABNORMAL
FLUID CONDITION	ATTENTION

Area
Store 9 - Marietta

Machine Id
JOHN DEERE 350G EX7 (S/N JF812434)

Component
Pump Drive

Fluid
GEAR OIL SAE 90 (--- GAL)

RECOMMENDATION

We recommend that you drain the oil from the component if this has not already been done. 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		LEC0049016	LEC0038371	---
Sample Date		Client Info		29 May 2024	18 Apr 2023	---
Machine Age	hrs	Client Info		6220	5556	---
Oil Age	hrs	Client Info		500	1000	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		Not Changd	Changed	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				SEVERE	ABNORMAL	---

WEAR

The iron level is severe. Gear wear is indicated.

PQ		ASTM D8184		169	26	---
Iron	ppm	ASTM D5185m	>151	▲ 598	▲ 172	---
Chromium	ppm	ASTM D5185m	>11	7	3	---
Nickel	ppm	ASTM D5185m	>10	<1	0	---
Titanium	ppm	ASTM D5185m		<1	<1	---
Silver	ppm	ASTM D5185m		0	0	---
Aluminum	ppm	ASTM D5185m	>21	6	7	---
Lead	ppm	ASTM D5185m	>51	0	0	---
Copper	ppm	ASTM D5185m	>51	0	<1	---
Tin	ppm	ASTM D5185m	>4	0	0	---
Vanadium	ppm	ASTM D5185m		0	0	---
White Metal	scalar	*Visual	NONE	NONE	MODER	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

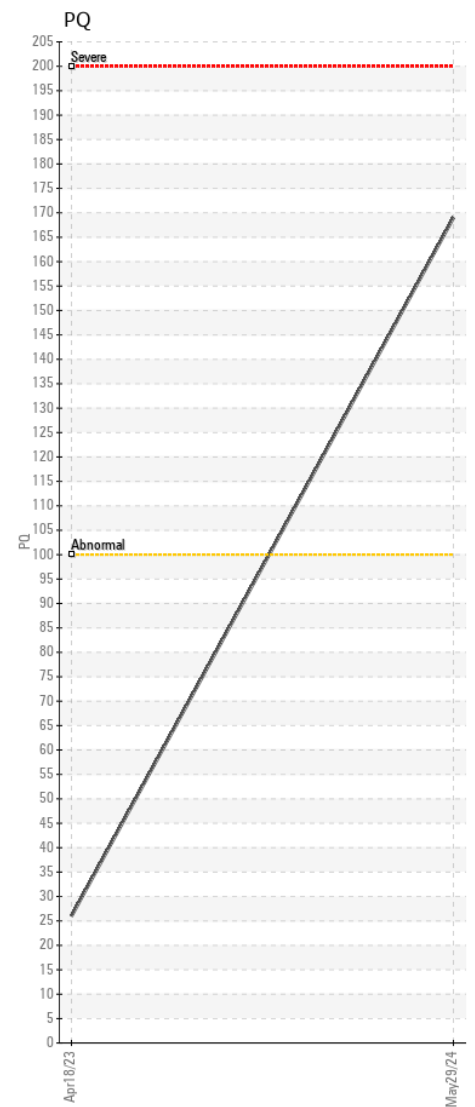
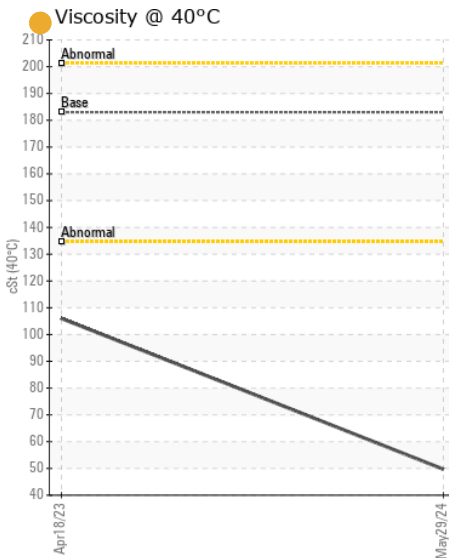
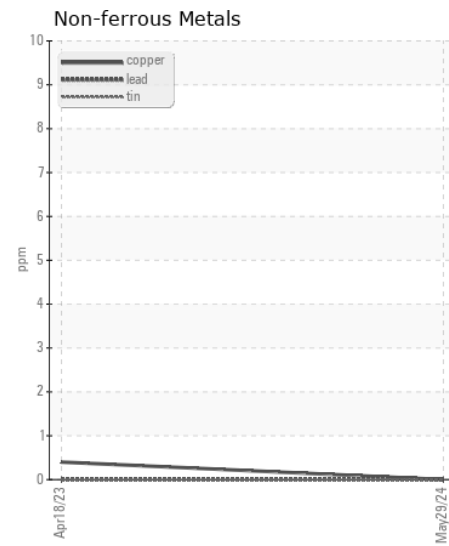
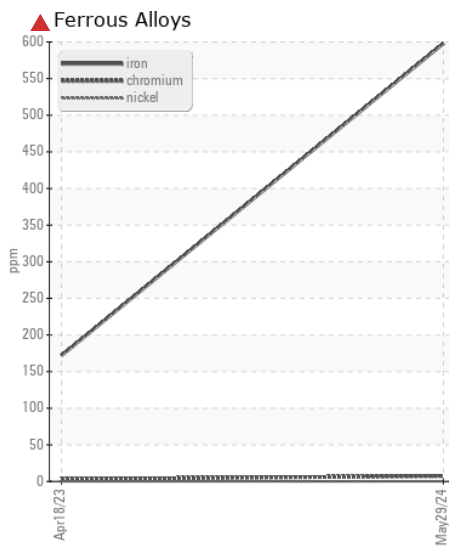
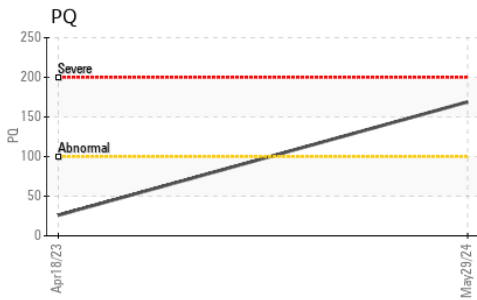
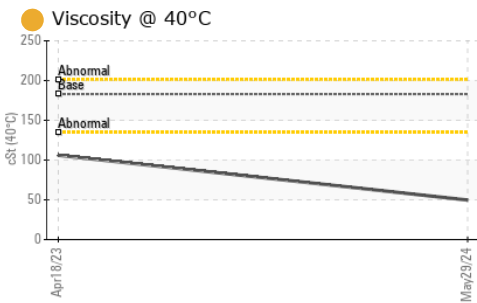
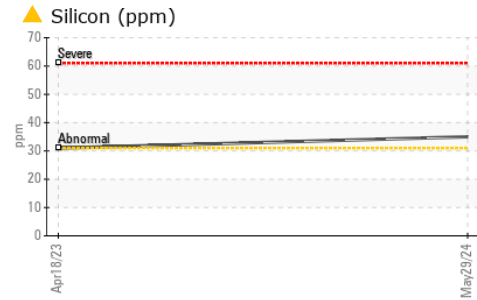
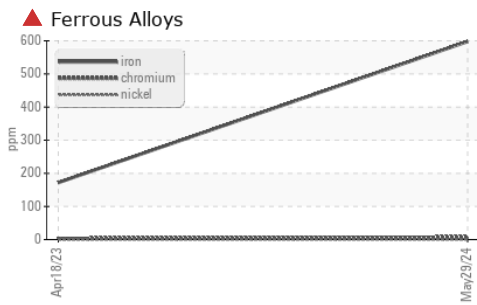
Elemental level of silicon (Si) above normal.

Silicon	ppm	ASTM D5185m	>31	▲ 35	31	---
Potassium	ppm	ASTM D5185m	>20	<1	3	---
Water		WC Method	>0.1	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	>0.1	NEG	NEG	---

FLUID CONDITION

The oil viscosity is lower than normal. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Sodium	ppm	ASTM D5185m	>51	2	1	---
Boron	ppm	ASTM D5185m	400	136	107	---
Barium	ppm	ASTM D5185m	200	0	0	---
Molybdenum	ppm	ASTM D5185m	12	215	37	---
Manganese	ppm	ASTM D5185m		8	5	---
Magnesium	ppm	ASTM D5185m	12	379	11	---
Calcium	ppm	ASTM D5185m	150	1137	1502	---
Phosphorus	ppm	ASTM D5185m	1650	882	1101	---
Zinc	ppm	ASTM D5185m	125	648	500	---
Sulfur	ppm	ASTM D5185m	22500	5634	12108	---
Visc @ 40°C	cSt	ASTM D445	183	● 49.7	106	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
 Sample No. : LEC0049016 Received : 03 Jul 2024
 Lab Number : 06227714 Tested : 05 Jul 2024
 Unique Number : 11111207 Diagnosed : 06 Jul 2024 - Don Baldrige
 Test Package : CONST (Additional Tests: PQ)

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)

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