



OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL



Area
Store 2 - Beaver
Machine Id
JOHN DEERE 210G EX49 (S/N 1FF210GXVNF530225)
Component
Left Propel Gearbox
Fluid
GEAR OIL SAE 90 (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		LEC0048997	LEC0043717	---
Sample Date		Client Info		29 Apr 2024	16 Sep 2023	---
Machine Age	hrs	Client Info		1528	663	---
Oil Age	hrs	Client Info		1000	663	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				ABNORMAL	NORMAL	---

WEAR

The chromium level is abnormal.

PQ		ASTM D8184		501	370	---
Iron	ppm	ASTM D5185m	>1250	1149	516	---
Chromium	ppm	ASTM D5185m	>10	▲ 17	7	---
Nickel	ppm	ASTM D5185m	>10	1	0	---
Titanium	ppm	ASTM D5185m		4	0	---
Silver	ppm	ASTM D5185m		0	0	---
Aluminum	ppm	ASTM D5185m		● 49	<1	---
Lead	ppm	ASTM D5185m		0	0	---
Copper	ppm	ASTM D5185m		<1	<1	---
Tin	ppm	ASTM D5185m		0	0	---
Vanadium	ppm	ASTM D5185m		<1	<1	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

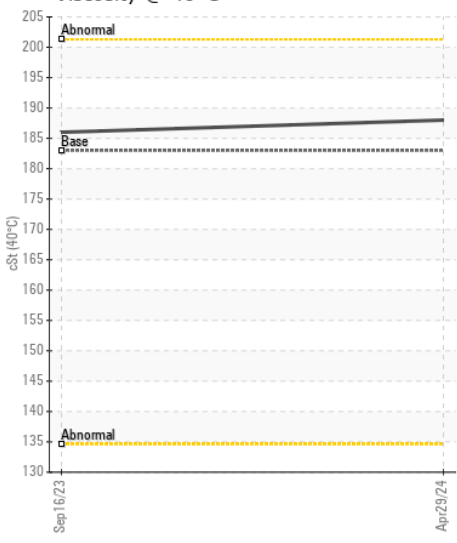
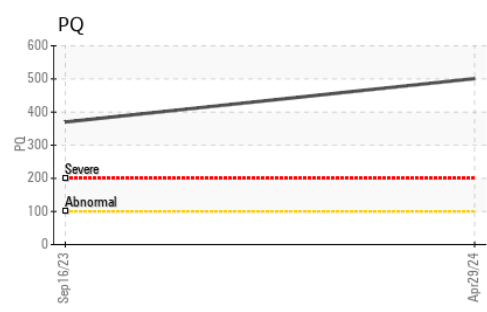
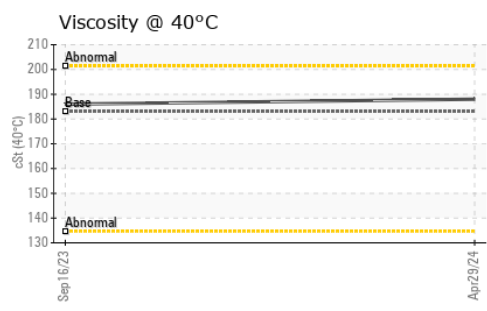
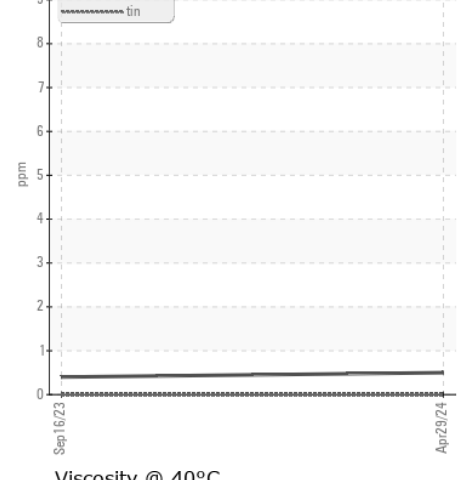
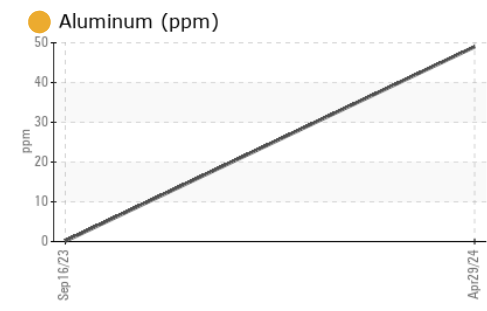
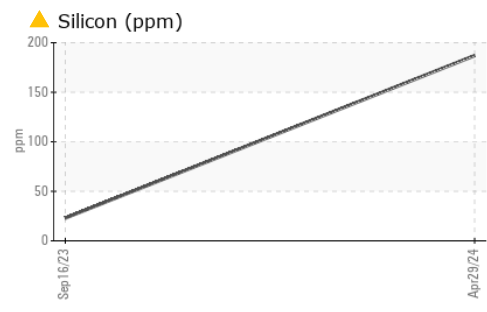
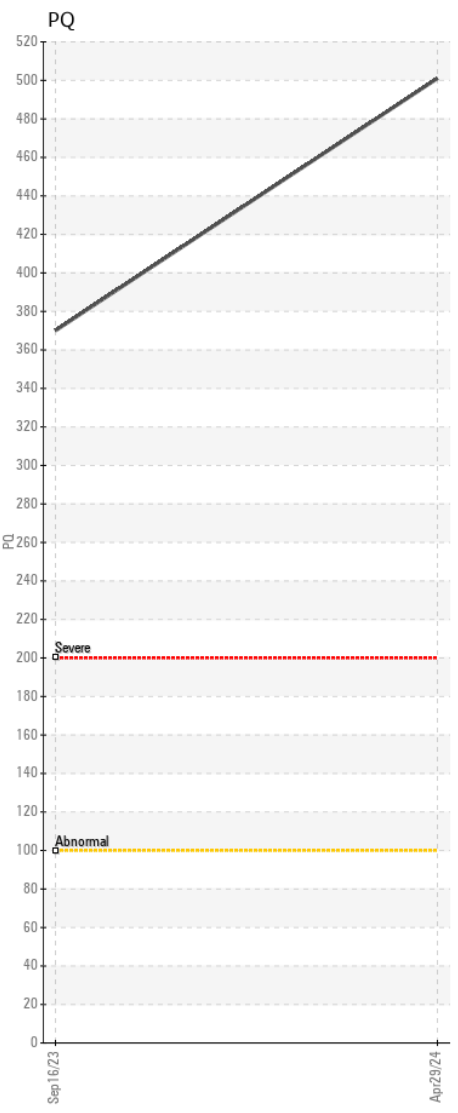
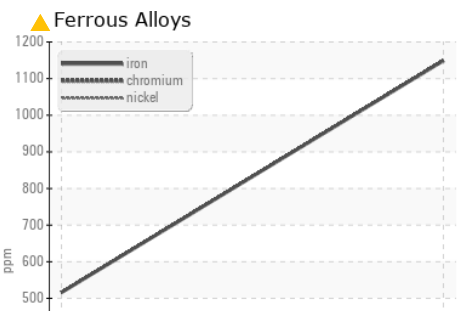
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Silicon	ppm	ASTM D5185m		▲ 187	23	---
Potassium	ppm	ASTM D5185m	>20	14	2	---
Water		WC Method	>0.2	NEG	NEG	---
Silt	scalar	*Visual	NONE	MODER	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 condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		3	0	---
Boron	ppm	ASTM D5185m	400	56	71	---
Barium	ppm	ASTM D5185m	200	7	0	---
Molybdenum	ppm	ASTM D5185m	12	0	0	---
Manganese	ppm	ASTM D5185m		17	9	---
Magnesium	ppm	ASTM D5185m	12	6	0	---
Calcium	ppm	ASTM D5185m	150	20	60	---
Phosphorus	ppm	ASTM D5185m	1650	520	540	---
Zinc	ppm	ASTM D5185m	125	34	0	---
Sulfur	ppm	ASTM D5185m	22500	18644	16305	---
Visc @ 40°C	cSt	ASTM D445	183	188	186	---



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LEC0048997 **Received** : 03 Jul 2024
Lab Number : 06227724 **Tested** : 05 Jul 2024
Unique Number : 11111217 **Diagnosed** : 06 Jul 2024 - Don Baldrige
Test Package : CONST (Additional Tests: PQ)

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 BRIDGEPORT, WV
 US 26330
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 T: (740)440-0927
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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)