



OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
Store 2 - Beaver
Machine Id
JOHN DEERE 210G EX49 (S/N 1FF210GXVNF530225)
Component
Right Propel Gearbox
Fluid
GEAR OIL SAE 90 (2 GAL)

RECOMMENDATION

The oil change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LEC0048998	LEC0043716	---
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	Not Chngd	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				ABNORMAL	NORMAL	---

WEAR

The chromium level is abnormal. All other component wear rates are normal.

PQ		ASTM D8184		331	373	---
Iron	ppm	ASTM D5185m	>1250	792	451	---
Chromium	ppm	ASTM D5185m	>10	▲ 13	6	---
Nickel	ppm	ASTM D5185m	>10	1	0	---
Titanium	ppm	ASTM D5185m		2	0	---
Silver	ppm	ASTM D5185m		0	0	---
Aluminum	ppm	ASTM D5185m		19	0	---
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

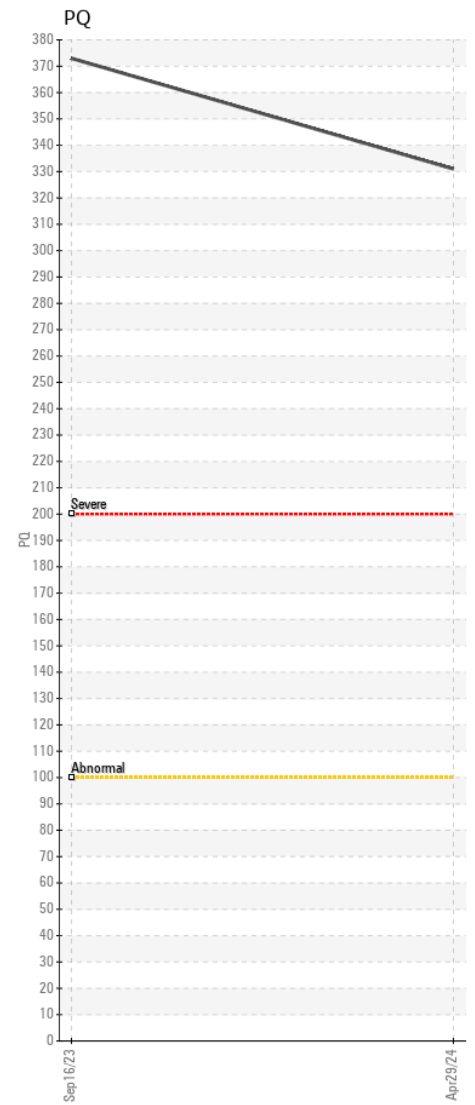
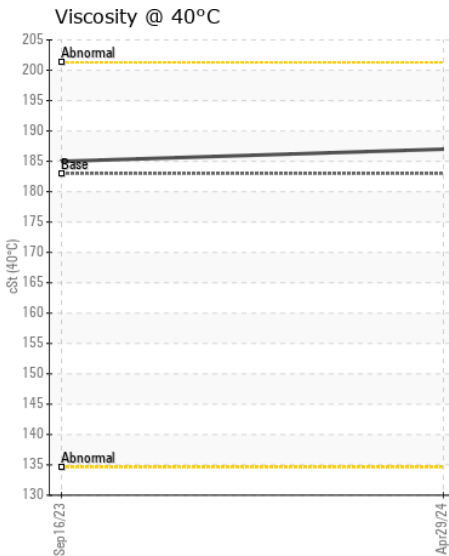
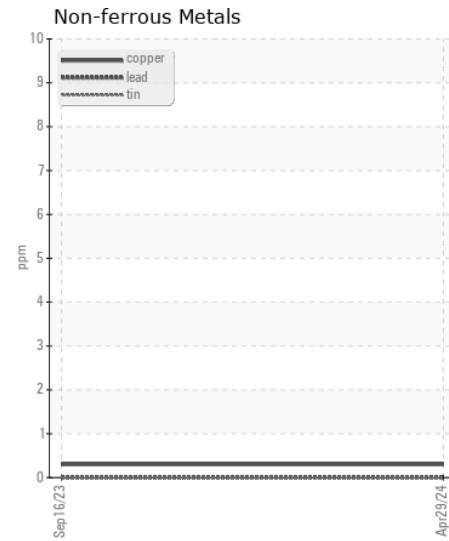
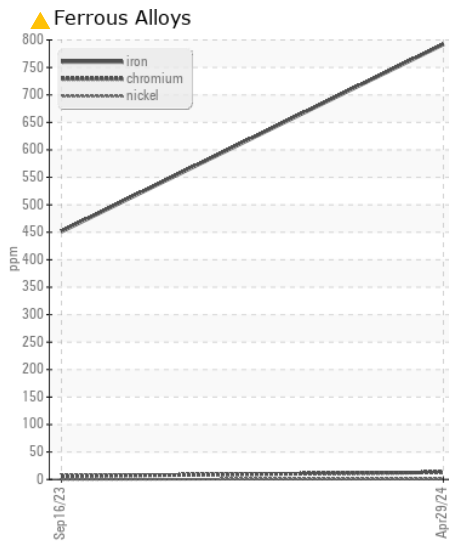
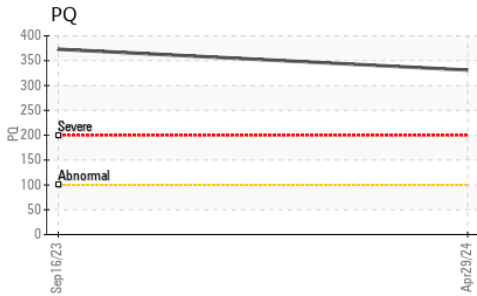
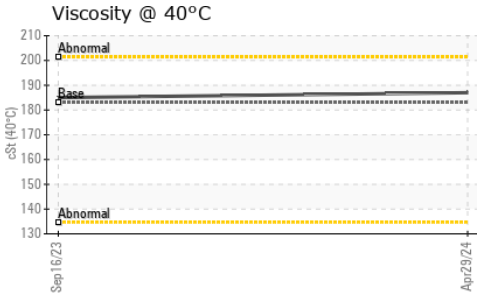
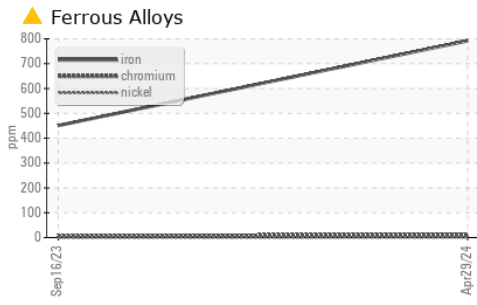
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m		81	22	---
Potassium	ppm	ASTM D5185m	>20	7	1	---
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		2	0	---
Boron	ppm	ASTM D5185m	400	54	70	---
Barium	ppm	ASTM D5185m	200	6	0	---
Molybdenum	ppm	ASTM D5185m	12	2	0	---
Manganese	ppm	ASTM D5185m		13	8	---
Magnesium	ppm	ASTM D5185m	12	11	0	---
Calcium	ppm	ASTM D5185m	150	35	44	---
Phosphorus	ppm	ASTM D5185m	1650	513	543	---
Zinc	ppm	ASTM D5185m	125	41	0	---
Sulfur	ppm	ASTM D5185m	22500	18588	16156	---
Visc @ 40°C	cSt	ASTM D445	183	187	185	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LEC0048998 **Received** : 03 Jul 2024
Lab Number : 06227723 **Tested** : 05 Jul 2024
Unique Number : 11111216 **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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