



OIL ANALYSIS REPORT

WEAR
CONTAMINATION
FLUID CONDITION

ATTENTION
ABNORMAL
NORMAL



Area
Store 8 - Pikeville [RO#150389]
Machine Id
JOHN DEERE 210G 1FF210GXCNF530264
Component
Right Propel Gearbox
Fluid
JOHN DEERE HY-GARD HYD/TRANS (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		LEC0048880	LEC0045640	---
Sample Date		Client Info		08 May 2024	23 Oct 2023	---
Machine Age	hrs	Client Info		1061	610	---
Oil Age	hrs	Client Info		451	610	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		N/A	N/A	---
Sample Status				ABNORMAL	NORMAL	---

WEAR

All component wear rates are normal.

PQ		ASTM D8184		444	411	---
Iron	ppm	ASTM D5185m	>1250	583	366	---
Chromium	ppm	ASTM D5185m	>10	9	8	---
Nickel	ppm	ASTM D5185m	>10	2	<1	---
Titanium	ppm	ASTM D5185m		3	<1	---
Silver	ppm	ASTM D5185m		0	<1	---
Aluminum	ppm	ASTM D5185m		37	4	---
Lead	ppm	ASTM D5185m		<1	0	---
Copper	ppm	ASTM D5185m		3	<1	---
Tin	ppm	ASTM D5185m		0	0	---
Vanadium	ppm	ASTM D5185m		<1	<1	---
White Metal	scalar	*Visual	NONE	MODER	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

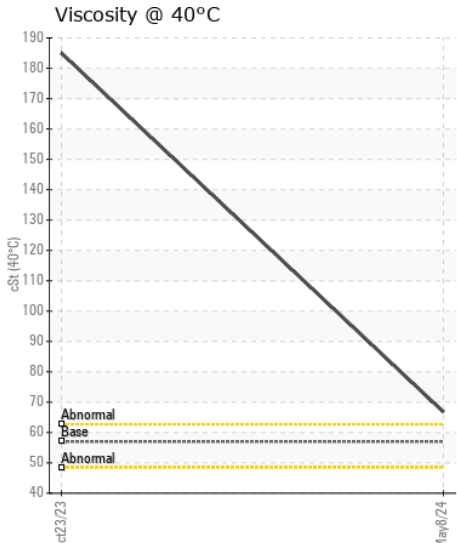
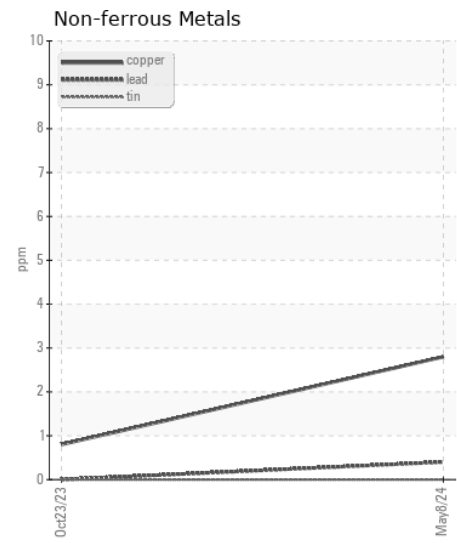
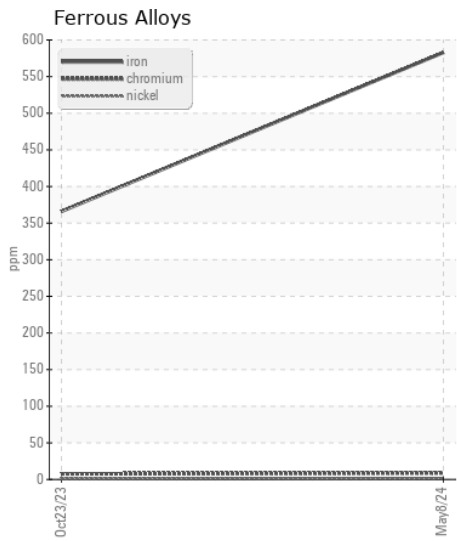
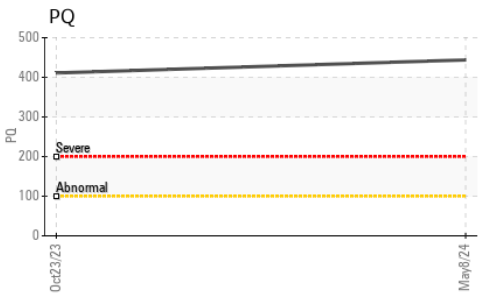
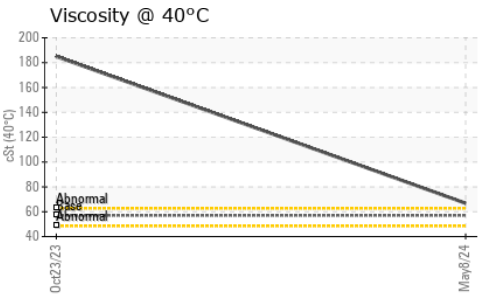
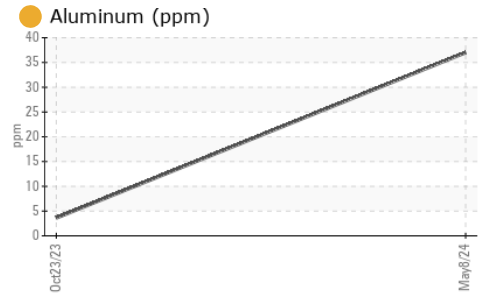
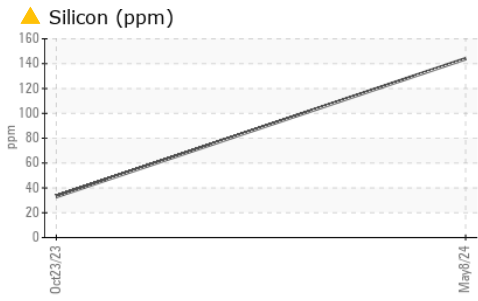
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Silicon	ppm	ASTM D5185m		144	33	---
Potassium	ppm	ASTM D5185m	>20	11	2	---
Water		WC Method	>0.2	NEG	NEG	---
Silt	scalar	*Visual	NONE	MODER	LIGHT	---
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		5	0	---
Boron	ppm	ASTM D5185m	6	31	54	---
Barium	ppm	ASTM D5185m	0	0	7	---
Molybdenum	ppm	ASTM D5185m	0	<1	0	---
Manganese	ppm	ASTM D5185m		8	8	---
Magnesium	ppm	ASTM D5185m	145	40	6	---
Calcium	ppm	ASTM D5185m	3570	2831	20	---
Phosphorus	ppm	ASTM D5185m	1290	915	534	---
Zinc	ppm	ASTM D5185m	1640	1021	27	---
Sulfur	ppm	ASTM D5185m		6583	16534	---
Visc @ 40°C	cSt	ASTM D445	57.0	66.8	185	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LEC0048880 **Received** : 10 May 2024
Lab Number : 06176338 **Tested** : 13 May 2024
Unique Number : 11022391 **Diagnosed** : 14 May 2024 - Sean Felton
Test Package : CONST (Additional Tests: PQ)

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 US 45750-9765
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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)