



OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
Store 2 - Beaver [RO#146607]
Machine Id
JOHN DEERE 310E 1DW310EXVNF713867
Component
Center Axle
Fluid
JOHN DEERE HY-GARD HYD/TRANS (10 GAL)

RECOMMENDATION

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		LEC0046888	LEC0039348	---
Sample Date		Client Info		26 Jan 2024	14 Mar 2023	---
Machine Age	hrs	Client Info		863	431	---
Oil Age	hrs	Client Info		432	431	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		Not Changed	Changed	---
Filter Changed		Client Info		N/A	N/A	---
Sample Status				ABNORMAL	ABNORMAL	---

WEAR

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

PQ		ASTM D8184		113	238	---
Iron	ppm	ASTM D5185m	>1501	206	262	---
Chromium	ppm	ASTM D5185m	>11	1	3	---
Nickel	ppm	ASTM D5185m	>10	4	4	---
Titanium	ppm	ASTM D5185m		0	<1	---
Silver	ppm	ASTM D5185m		0	0	---
Aluminum	ppm	ASTM D5185m	>21	2	4	---
Lead	ppm	ASTM D5185m	>51	0	0	---
Copper	ppm	ASTM D5185m	>101	▲ 106	▲ 106	---
Tin	ppm	ASTM D5185m	>10	5	5	---
Vanadium	ppm	ASTM D5185m		0	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

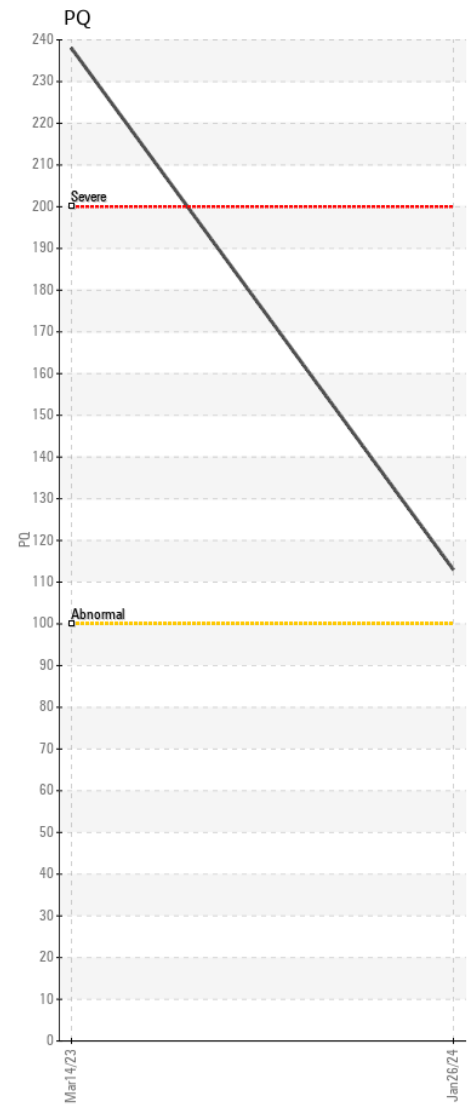
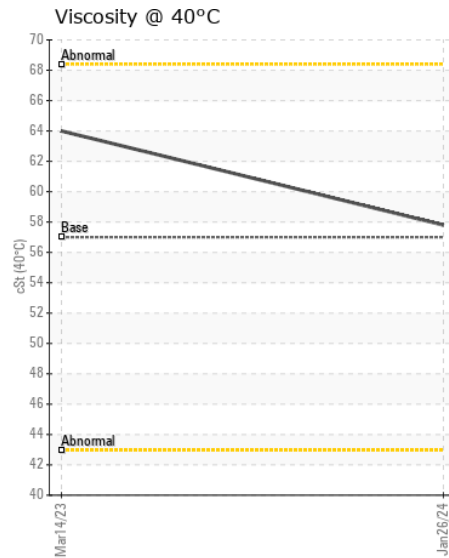
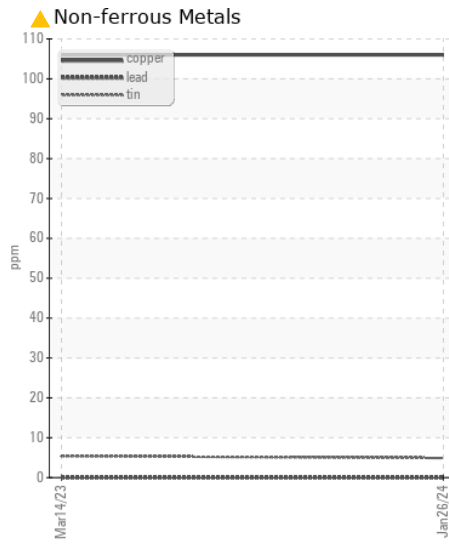
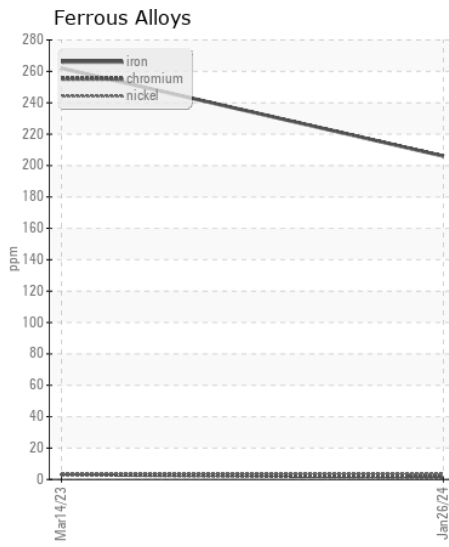
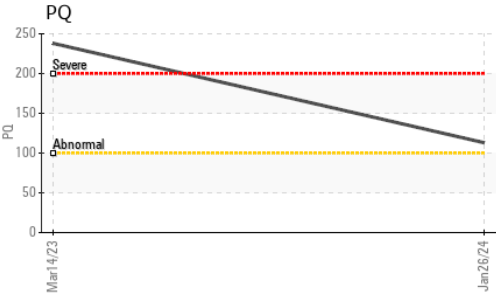
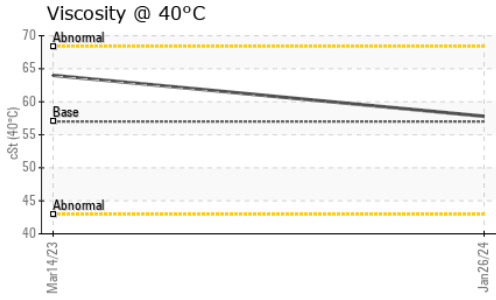
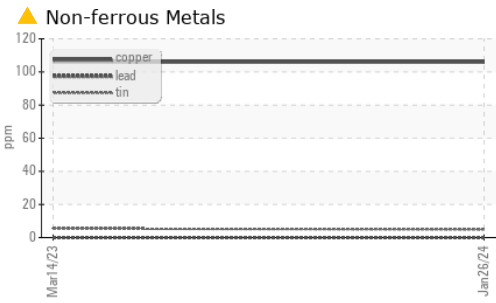
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>31	12	13	---
Potassium	ppm	ASTM D5185m	>20	3	<1	---
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 condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m	>51	2	18	---
Boron	ppm	ASTM D5185m	6	43	105	---
Barium	ppm	ASTM D5185m	0	1	0	---
Molybdenum	ppm	ASTM D5185m	0	5	<1	---
Manganese	ppm	ASTM D5185m		38	53	---
Magnesium	ppm	ASTM D5185m	145	97	11	---
Calcium	ppm	ASTM D5185m	3570	3515	3376	---
Phosphorus	ppm	ASTM D5185m	1290	1146	1120	---
Zinc	ppm	ASTM D5185m	1640	1386	1364	---
Sulfur	ppm	ASTM D5185m		3999	4110	---
Visc @ 40°C	cSt	ASTM D445	57.0	57.8	64.0	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LEC0046888 **Received** : 30 Jan 2024
Lab Number : 06075123 **Diagnosed** : 01 Feb 2024
Unique Number : 10857214 **Diagnostician** : Angela Borella
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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