



OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
Store 2 - Beaver [RO#148195]
Machine Id
JOHN DEERE 310G T0310GX949926
Component
Transmission (Manual)
Fluid
JOHN DEERE HY-GARD HYD/TRANS (--- 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		LEC0047494	LEC0032514	LEC0022538
Sample Date		Client Info		22 Feb 2024	15 Aug 2022	02 Aug 2021
Machine Age	hrs	Client Info		2869	2614	2371
Oil Age	hrs	Client Info		2869	2614	2371
Filter Age	hrs	Client Info		2869	2614	2371
Oil Changed		Client Info		Not Changed	Not Changed	Not Changed
Filter Changed		Client Info		Changed	Not Changed	Not Changed
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL

WEAR

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

PQ		ASTM D8184	>95	27	17	30
Iron	ppm	ASTM D5185m	>200	62	62	64
Chromium	ppm	ASTM D5185m	>5	0	<1	<1
Nickel	ppm	ASTM D5185m	>5	<1	0	<1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>7	<1	3	2
Aluminum	ppm	ASTM D5185m	>25	2	2	0
Lead	ppm	ASTM D5185m	>45	19	17	19
Copper	ppm	ASTM D5185m	>225	▲ 264	▲ 295	▲ 308
Tin	ppm	ASTM D5185m	>10	4	4	5
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	VLITE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

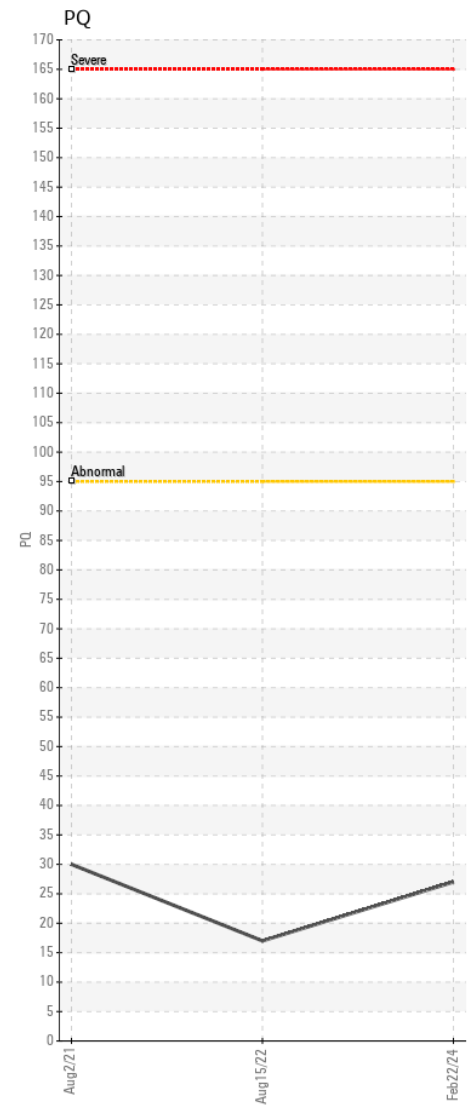
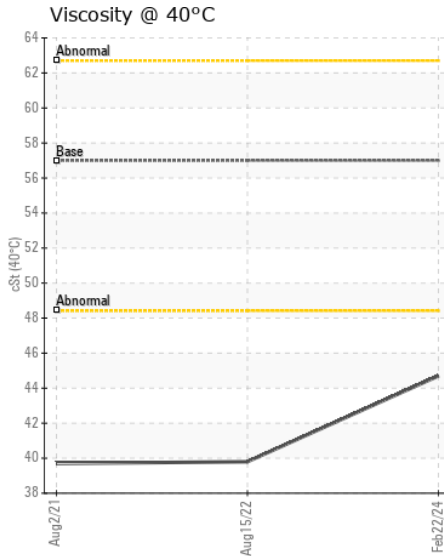
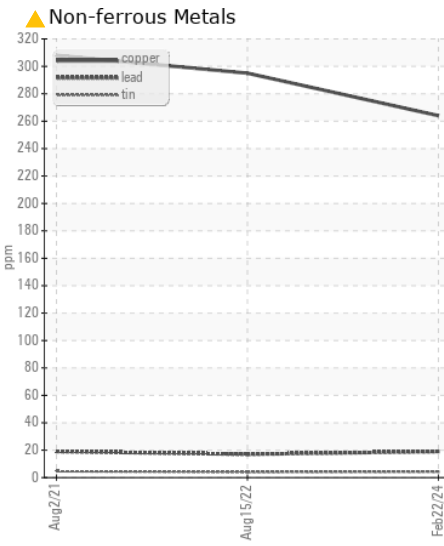
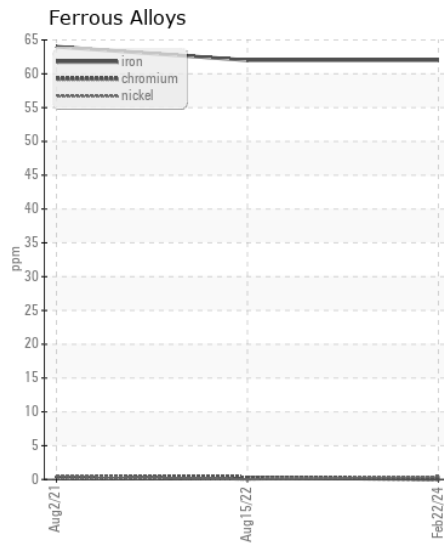
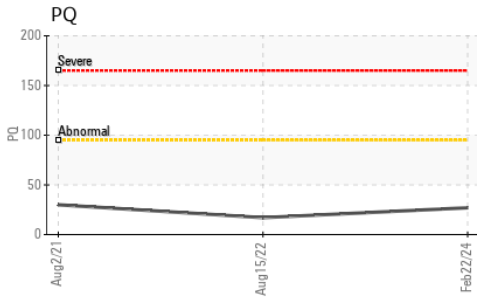
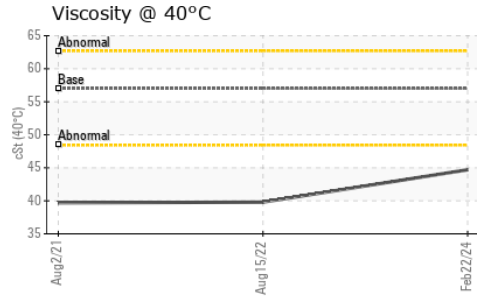
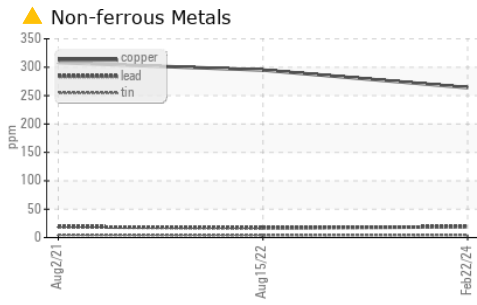
There is no indication of any contamination in the fluid.

Silicon	ppm	ASTM D5185m	>125	4	4	3
Potassium	ppm	ASTM D5185m	>20	2	0	4
Water		WC Method	>0.1	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	LIGHT	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	NEG

FLUID CONDITION

The condition of the fluid is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		5	3	3
Boron	ppm	ASTM D5185m	6	<1	0	11
Barium	ppm	ASTM D5185m	0	<1	1	0
Molybdenum	ppm	ASTM D5185m	0	1	1	5
Manganese	ppm	ASTM D5185m		2	2	2
Magnesium	ppm	ASTM D5185m	145	78	73	94
Calcium	ppm	ASTM D5185m	3570	2754	2769	3186
Phosphorus	ppm	ASTM D5185m	1290	829	781	938
Zinc	ppm	ASTM D5185m	1640	1040	1028	1164
Sulfur	ppm	ASTM D5185m		3263	3248	3233
Visc @ 40°C	cSt	ASTM D445	57.0	44.7	39.8	39.7



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LEC0047494 **Received** : 28 Feb 2024
Lab Number : 06103190 **Tested** : 01 Mar 2024
Unique Number : 10901420 **Diagnosed** : 01 Mar 2024 - Sean Felton
Test Package : CONST (Additional Tests: PQ)

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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)