



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
Store 1 - Cowen [RO#150387]
Machine Id
JOHN DEERE 748L II 1DW748LBTMF711946
Component
Rear Axle
Fluid
JOHN DEERE HY-GARD HYD/TRANS (9 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LEC0048755	LEC0042207	LEC0038680
Sample Date		Client Info		07 May 2024	23 Oct 2023	14 Feb 2023
Machine Age	hrs	Client Info		2631	2064	1484
Oil Age	hrs	Client Info		2060	1493	913
Filter Age	hrs	Client Info		1509	942	362
Oil Changed		Client Info		Changed	Not Changd	Not Changd
Filter Changed		Client Info		Changed	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

PQ		ASTM D8184		86	43	45
Iron	ppm	ASTM D5185m	>750	218	152	122
Chromium	ppm	ASTM D5185m	>11	<1	<1	<1
Nickel	ppm	ASTM D5185m	>10	1	1	<1
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>21	3	2	<1
Lead	ppm	ASTM D5185m	>49	2	<1	2
Copper	ppm	ASTM D5185m	>101	15	14	11
Tin	ppm	ASTM D5185m	>10	<1	<1	1
Vanadium	ppm	ASTM D5185m		0	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

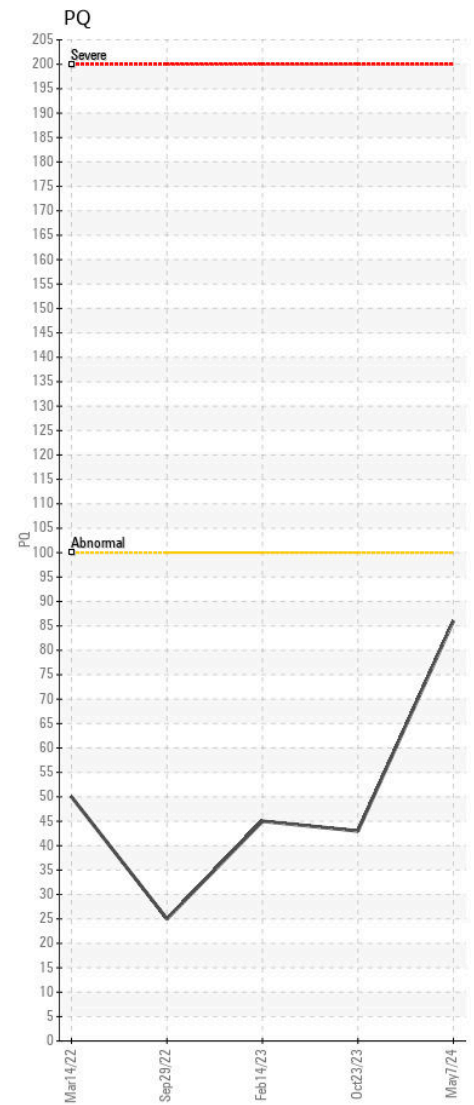
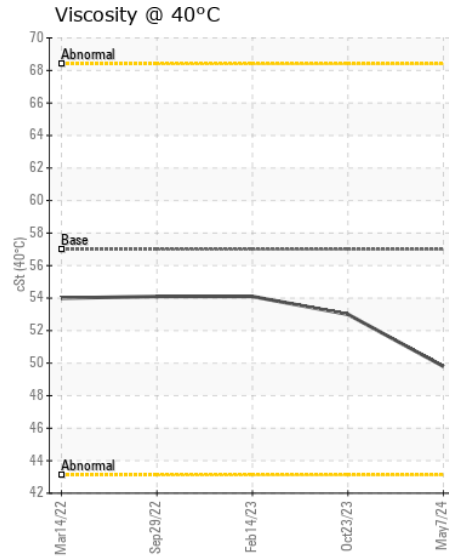
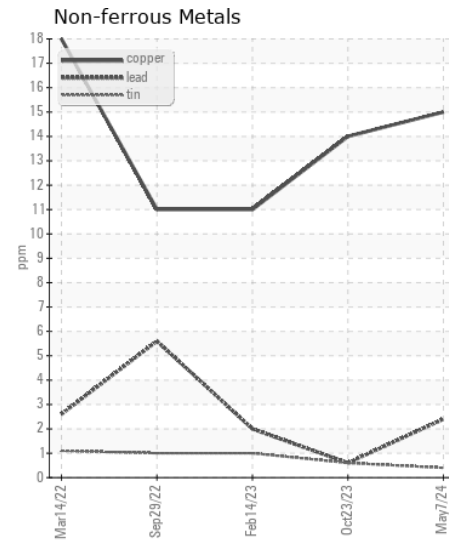
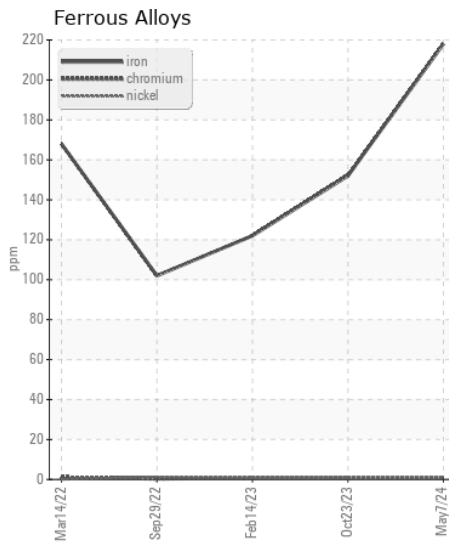
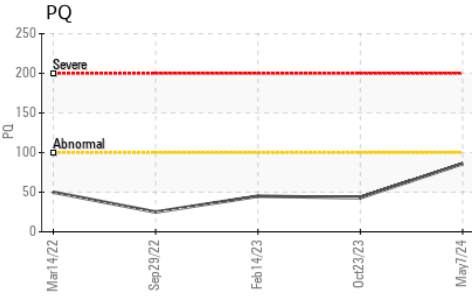
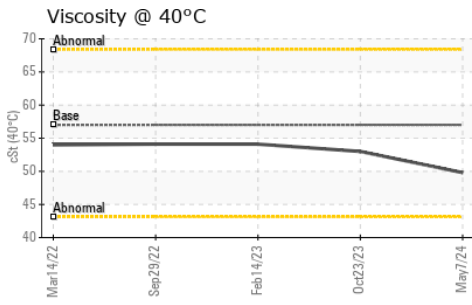
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>31	12	8	7
Potassium	ppm	ASTM D5185m	>20	1	0	0
Water		WC Method	>0.1	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	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 oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m	>51	6	<1	4
Boron	ppm	ASTM D5185m	6	4	0	4
Barium	ppm	ASTM D5185m	0	0	<1	1
Molybdenum	ppm	ASTM D5185m	0	4	2	4
Manganese	ppm	ASTM D5185m		6	4	4
Magnesium	ppm	ASTM D5185m	145	64	109	99
Calcium	ppm	ASTM D5185m	3570	3318	3277	3214
Phosphorus	ppm	ASTM D5185m	1290	1021	1066	899
Zinc	ppm	ASTM D5185m	1640	1234	1265	1144
Sulfur	ppm	ASTM D5185m		3779	3641	3636
Visc @ 40°C	cSt	ASTM D445	57.0	49.8	53.0	54.1



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LEC0048755 **Received** : 10 May 2024
Lab Number : 06176346 **Tested** : 13 May 2024
Unique Number : 11022399 **Diagnosed** : 13 May 2024 - Wes Davis
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)