



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
Store 2 - Beaver [RO#144240]
Machine Id
John Deere 648L 1DW648LXAFF668941
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		LEC0042035	LEC0042567	LEC0038700
Sample Date		Client Info		19 Oct 2023	30 Jun 2023	03 Feb 2023
Machine Age	hrs	Client Info		13433	12950	12394
Oil Age	hrs	Client Info		2862	2379	1823
Filter Age	hrs	Client Info		2862	2379	1823
Oil Changed		Client Info		Not Changd	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		11	12	12
Iron	ppm	ASTM D5185m	>750	44	34	96
Chromium	ppm	ASTM D5185m	>11	0	0	<1
Nickel	ppm	ASTM D5185m	>10	0	0	<1
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>21	<1	<1	4
Lead	ppm	ASTM D5185m	>49	<1	0	1
Copper	ppm	ASTM D5185m	>101	5	4	10
Tin	ppm	ASTM D5185m	>10	<1	0	1
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	MODER
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

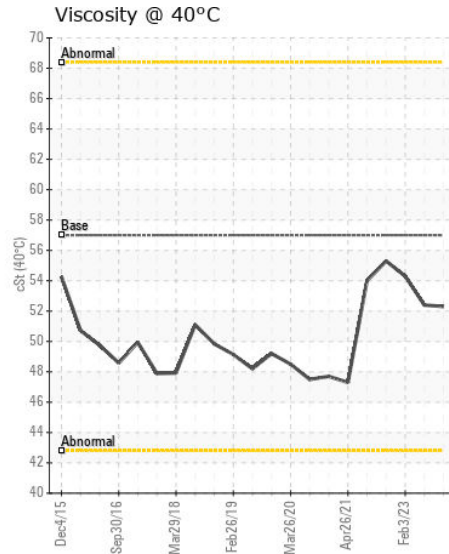
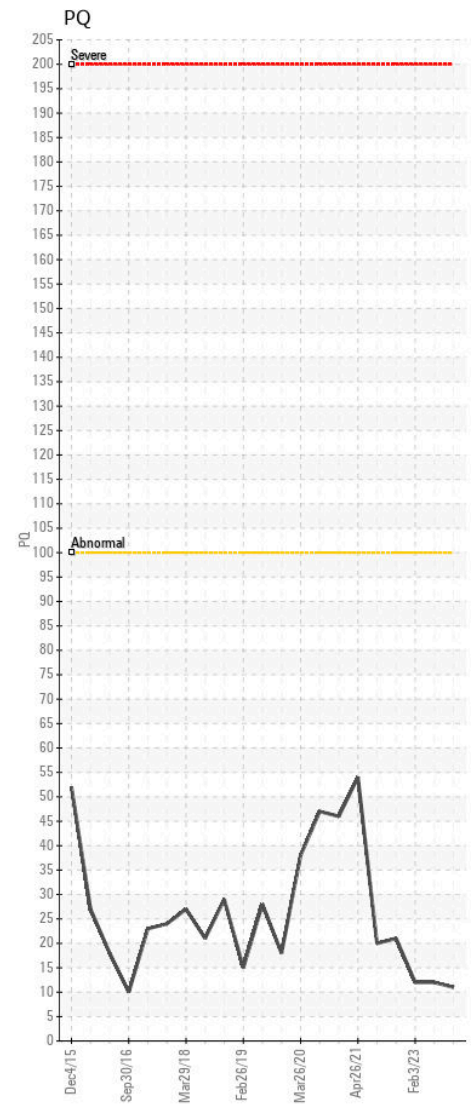
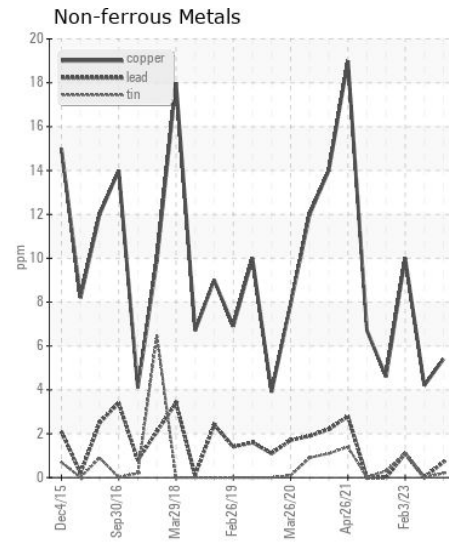
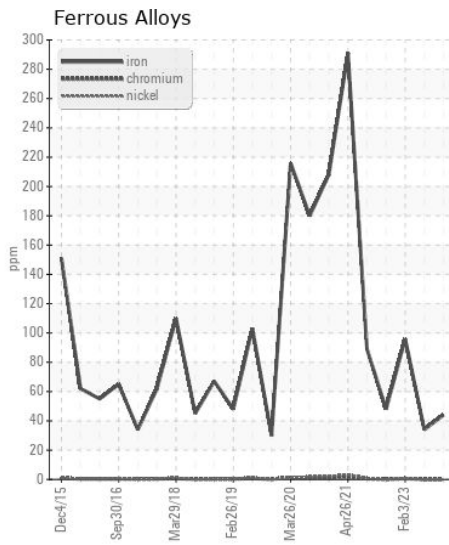
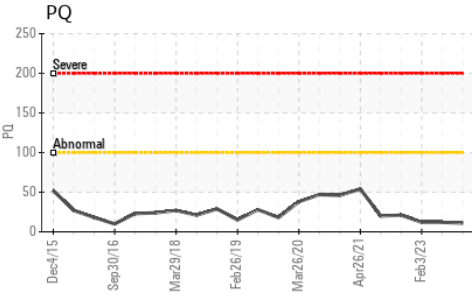
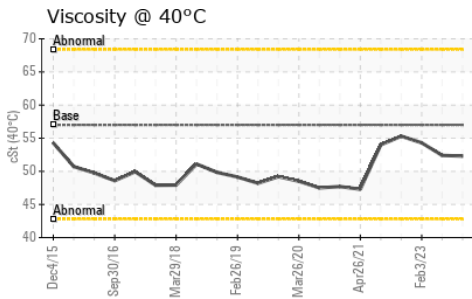
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>31	6	6	15
Potassium	ppm	ASTM D5185m	>20	0	0	<1
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	1	2	3
Boron	ppm	ASTM D5185m	6	4	3	13
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	0	3	3	19
Manganese	ppm	ASTM D5185m		<1	<1	1
Magnesium	ppm	ASTM D5185m	145	101	102	147
Calcium	ppm	ASTM D5185m	3570	3233	3254	3306
Phosphorus	ppm	ASTM D5185m	1290	1036	959	978
Zinc	ppm	ASTM D5185m	1640	1215	1144	1204
Sulfur	ppm	ASTM D5185m		3275	3708	4056
Visc @ 40°C	cSt	ASTM D445	57.0	52.3	52.4	54.3



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LEC0042035 **Received** : 25 Oct 2023
Lab Number : 05989432 **Tested** : 26 Oct 2023
Unique Number : 10712094 **Diagnosed** : 27 Oct 2023 - 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)