



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
Store 4 - Fairmont
Machine Id
JOHN DEERE 648H 1DW648HXEDD655905
Component
Rear Axle
Fluid
JOHN DEERE HY-GARD HYD/TRANS (7 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LEC0050079	LECP142124	LECP148149
Sample Date		Client Info		08 Jul 2024	20 Mar 2015	15 Sep 2014
Machine Age	hrs	Client Info		12453	2121	1149
Oil Age	hrs	Client Info		11846	0	542
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Not Changd	Not Changd
Filter Changed		Client Info		N/A	Not Changd	N/A
Sample Status				NORMAL	NORMAL	MARGINAL

WEAR

All component wear rates are normal.

PQ		ASTM D8184		70	171	106
Iron	ppm	ASTM D5185m	>750	353	366	262
Chromium	ppm	ASTM D5185m	>11	2	2	1
Nickel	ppm	ASTM D5185m	>10	0	2	2
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>21	4	5	2
Lead	ppm	ASTM D5185m	>49	<1	<1	1
Copper	ppm	ASTM D5185m	>101	8	13	12
Tin	ppm	ASTM D5185m	>10	0	0	<1
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	HEAVY	LIGHT
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

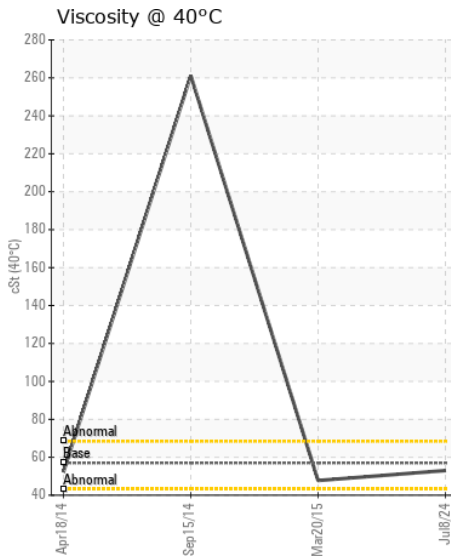
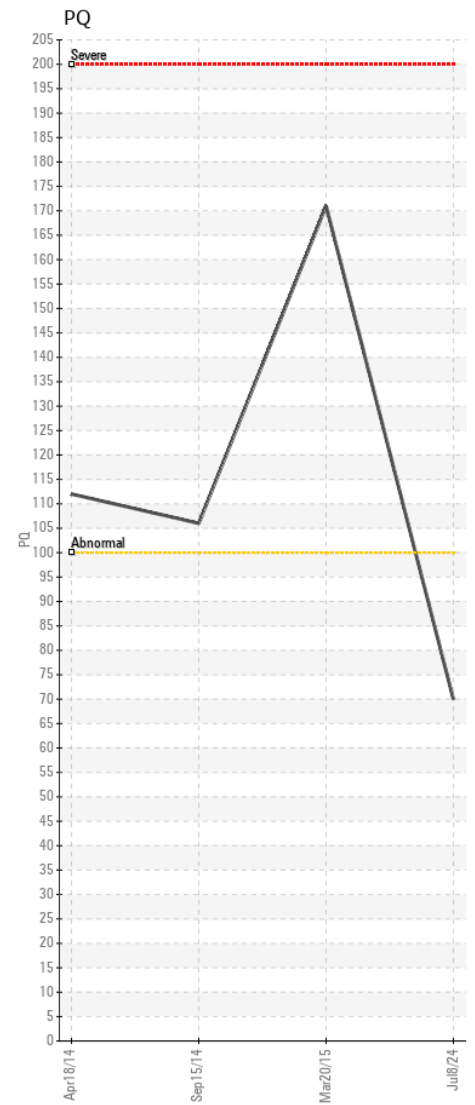
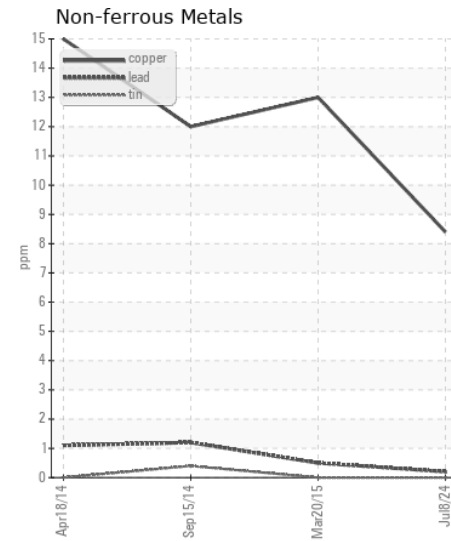
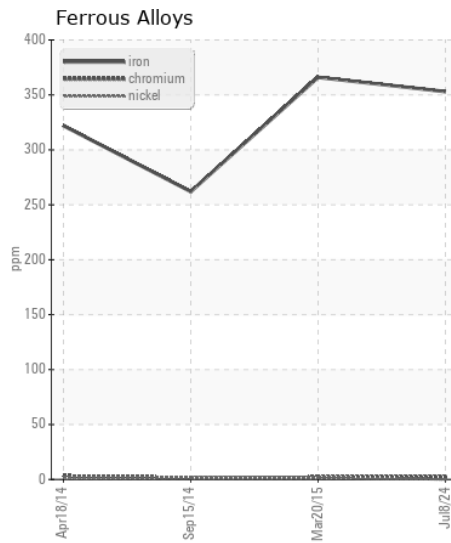
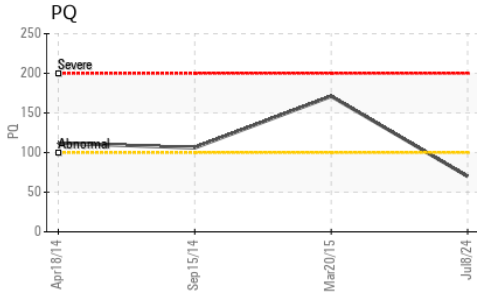
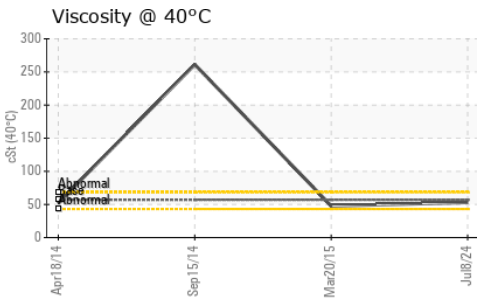
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>31	22	31	18
Potassium	ppm	ASTM D5185m	>20	<1	3	2
Water		WC Method	>0.1	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	LIGHT	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	3	3	3
Boron	ppm	ASTM D5185m	6	2	2	2
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	0	2	0	0
Manganese	ppm	ASTM D5185m		4	6	5
Magnesium	ppm	ASTM D5185m	145	104	87	92
Calcium	ppm	ASTM D5185m	3570	3325	3321	3759
Phosphorus	ppm	ASTM D5185m	1290	1026	1028	1080
Zinc	ppm	ASTM D5185m	1640	1110	1156	1229
Sulfur	ppm	ASTM D5185m		3898	1789	5300
Visc @ 40°C	cSt	ASTM D445	57.0	53.0	47.74	▲ 261.2



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LEC0050079 **Received** : 10 Jul 2024
Lab Number : 06232561 **Tested** : 11 Jul 2024
Unique Number : 11116054 **Diagnosed** : 11 Jul 2024 - Wes Davis
Test Package : CONST (Additional Tests: PQ)

LESLIE EQUIPMENT COMPANY
 105 TENNIS CENTER DR.
 MARIETTA, OH
 US 45750-9765
 Contact: LEANNE KENDALL
 KendalLeanne@lec1.com

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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