



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	MARGINAL
FLUID CONDITION	NORMAL

Area
Store 9 - Marietta

Machine Id
JOHN DEERE 310G T0310SG902056

Component
Transmission (Manual)

Fluid
JOHN DEERE HY-GARD HYD/TRANS (16 QTS)

RECOMMENDATION

The filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LEC0049348	LEC0030188	LECP115253
Sample Date		Client Info		21 May 2024	17 Jun 2022	27 Mar 2012
Machine Age	hrs	Client Info		2712	2701	2438
Oil Age	hrs	Client Info		11	1000	86
Filter Age	hrs	Client Info		11	1000	86
Oil Changed		Client Info		Not Changd	Changed	Not Changd
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				MARGINAL	ABNORMAL	NORMAL

WEAR

All component wear rates are normal.

PQ		ASTM D8184	>95	19	23	13.0
Iron	ppm	ASTM D5185m	>200	14	15	11
Chromium	ppm	ASTM D5185m	>5	<1	<1	<1
Nickel	ppm	ASTM D5185m	>5	<1	0	<1
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m	>7	3	4	1
Aluminum	ppm	ASTM D5185m	>25	2	1	1
Lead	ppm	ASTM D5185m	>45	5	10	5
Copper	ppm	ASTM D5185m	>225	152	▲ 260	111
Tin	ppm	ASTM D5185m	>10	2	<1	0
Vanadium	ppm	ASTM D5185m		<1	0	1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

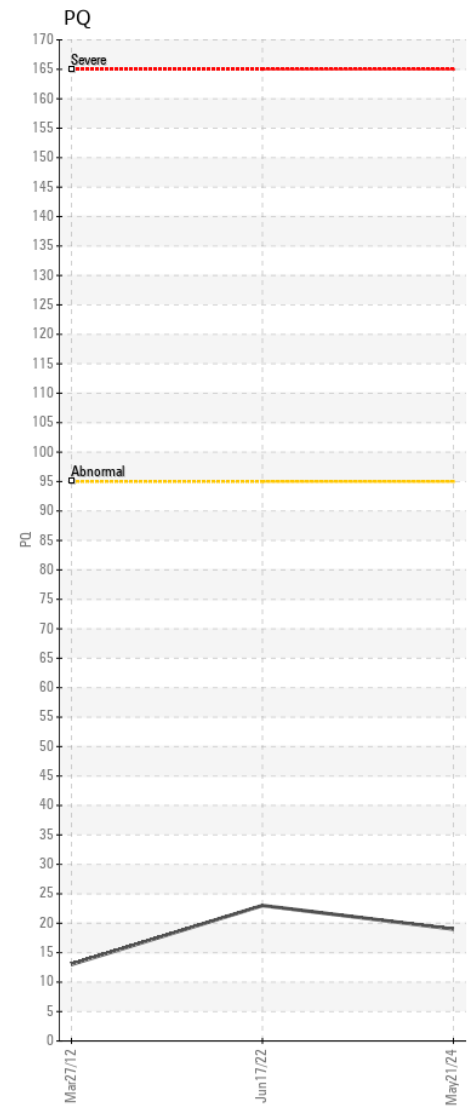
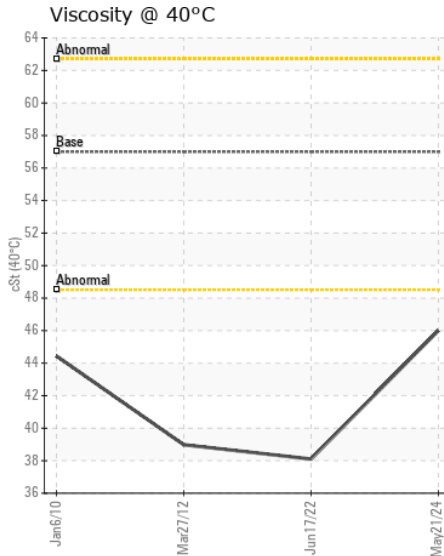
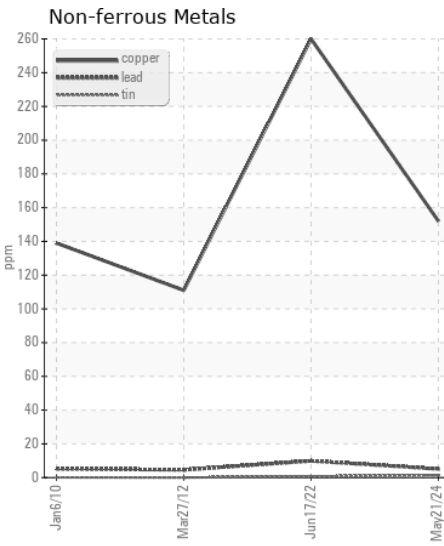
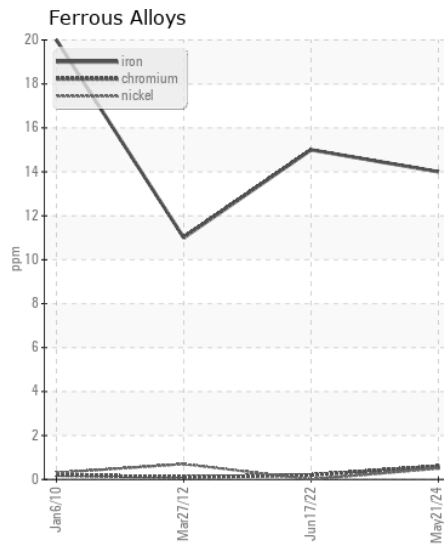
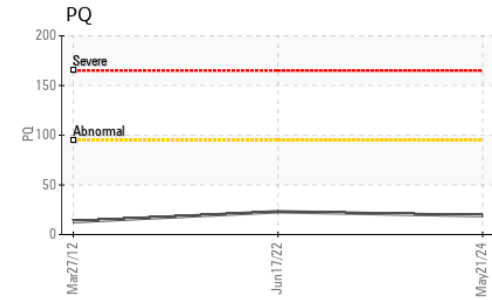
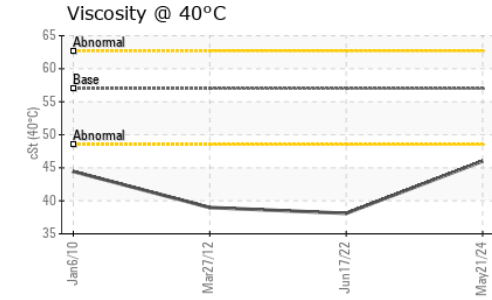
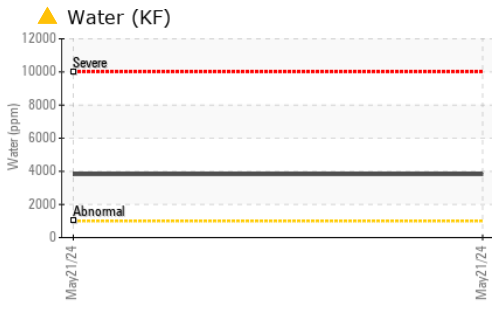
There is a light concentration of water present in the fluid.

Silicon	ppm	ASTM D5185m	>125	5	4	6
Potassium	ppm	ASTM D5185m	>20	2	0	0
Water	%	ASTM D6304	>0.1	▲ 0.382	---	---
ppm Water	ppm	ASTM D6304	>1000	▲ 3820	---	---
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	VLITE
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	0.2%	NEG	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		1	2	2
Boron	ppm	ASTM D5185m	6	10	9	5
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	0	1	2	<1
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	145	77	53	53
Calcium	ppm	ASTM D5185m	3570	3395	2975	3330
Phosphorus	ppm	ASTM D5185m	1290	961	963	1168
Zinc	ppm	ASTM D5185m	1640	1240	1056	1251
Sulfur	ppm	ASTM D5185m		3865	3362	3577
Visc @ 40°C	cSt	ASTM D445	57.0	46.0	38.1	38.98



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LEC0049348 **Received** : 23 May 2024
Lab Number : 06189498 **Tested** : 28 May 2024
Unique Number : 11046250 **Diagnosed** : 28 May 2024 - Don Baldrige
Test Package : CONST (Additional Tests: KF, 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)

T: (740)373-5570