



OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	NORMAL
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

Oil and 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		LEC0030188	LECP115253	WC008029
Sample Date		Client Info		17 Jun 2022	27 Mar 2012	06 Jan 2010
Machine Age	hrs	Client Info		2701	2438	2352
Oil Age	hrs	Client Info		1000	86	0
Filter Age	hrs	Client Info		1000	86	0
Oil Changed		Client Info		Changed	Not Chngd	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	NORMAL	NORMAL

WEAR

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

PQ		ASTM D8184	>95	23	13.0	---
Iron	ppm	ASTM D5185m	>200	15	11	20
Chromium	ppm	ASTM D5185m	>5	<1	<1	<1
Nickel	ppm	ASTM D5185m	>5	0	<1	<1
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m	>7	4	1	1
Aluminum	ppm	ASTM D5185m	>25	1	1	<1
Lead	ppm	ASTM D5185m	>45	10	5	5
Copper	ppm	ASTM D5185m	>225	▲ 260	111	139
Tin	ppm	ASTM D5185m	>10	<1	0	<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

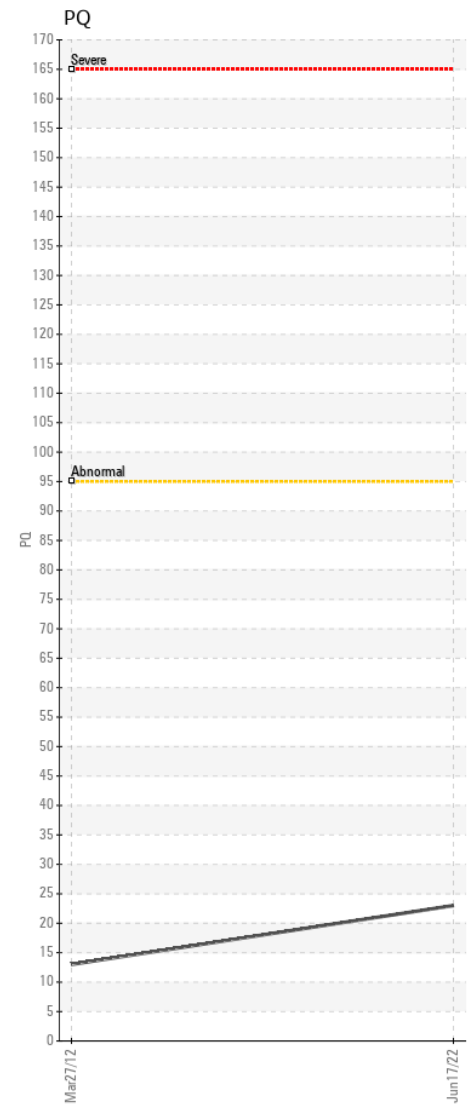
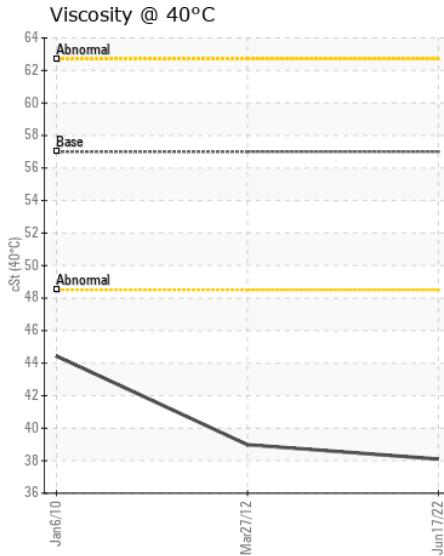
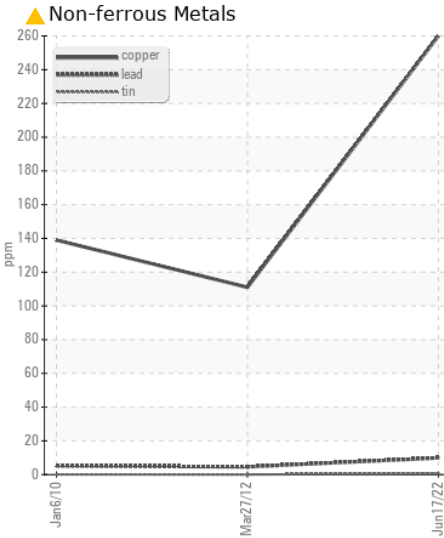
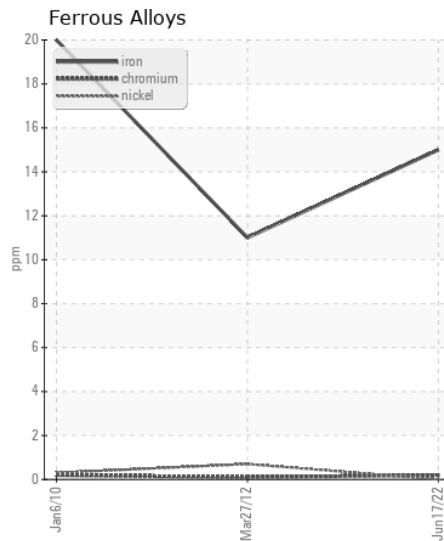
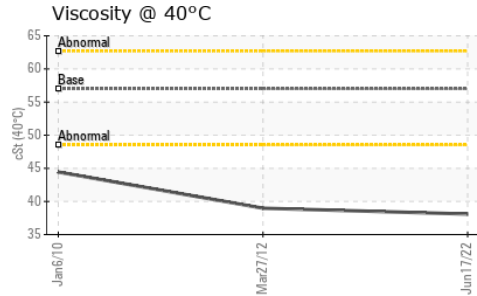
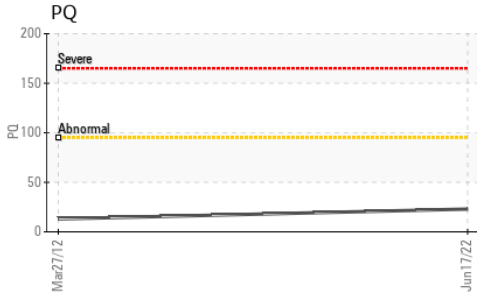
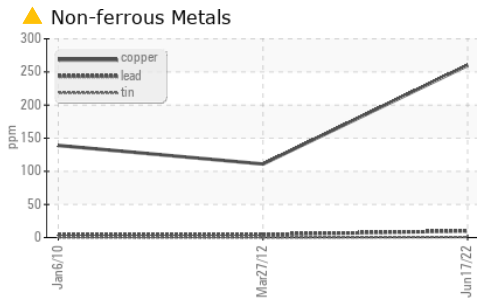
There is no indication of any contamination in the fluid.

Silicon	ppm	ASTM D5185m	>125	4	6	11
Potassium	ppm	ASTM D5185m	>20	0	0	3
Water		WC Method	>0.1	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	VLITE	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		2	2	<1
Boron	ppm	ASTM D5185m	6	9	5	9
Barium	ppm	ASTM D5185m	0	0	0	<1
Molybdenum	ppm	ASTM D5185m	0	2	<1	<1
Manganese	ppm	ASTM D5185m		<1	<1	1
Magnesium	ppm	ASTM D5185m	145	53	53	87
Calcium	ppm	ASTM D5185m	3570	2975	3330	3142
Phosphorus	ppm	ASTM D5185m	1290	963	1168	972
Zinc	ppm	ASTM D5185m	1640	1056	1251	1154
Sulfur	ppm	ASTM D5185m		3362	3577	3447
Visc @ 40°C	cSt	ASTM D445	57.0	38.1	38.98	44.44



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LEC0030188 **Received** : 21 Jun 2022
Lab Number : 05573309 **Tested** : 22 Jun 2022
Unique Number : 10022726 **Diagnosed** : 22 Jun 2022 - Angela Borella
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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