



# OIL ANALYSIS REPORT

WEAR	<b>NORMAL</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>NORMAL</b>

Area  
**Store 9 - Marietta [149024]**  
Machine Id  
**JOHN DEERE 310G T0310SG902056**  
Component  
**Rear Axle**  
Fluid  
**JOHN DEERE HY-GARD HYD/TRANS (17 QTS)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>LEC0049350</b>	LEC0030187	LECP115985
Sample Date		Client Info		<b>21 May 2024</b>	17 Jun 2022	27 Mar 2012
Machine Age	hrs	Client Info		<b>2712</b>	2701	2438
Oil Age	hrs	Client Info		<b>11</b>	1000	86
Filter Age	hrs	Client Info		<b>0</b>	0	86
Oil Changed		Client Info		<b>Not Changd</b>	Changed	Not Changd
Filter Changed		Client Info		<b>N/A</b>	N/A	Not Changd
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

## WEAR

All component wear rates are normal.

PQ		ASTM D8184		<b>48</b>	89	50.0
Iron	ppm	ASTM D5185m	>750	<b>107</b>	200	77
Chromium	ppm	ASTM D5185m	>11	<b>1</b>	2	<1
Nickel	ppm	ASTM D5185m	>10	<b>&lt;1</b>	0	<1
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1
Silver	ppm	ASTM D5185m		<b>&lt;1</b>	<1	0
Aluminum	ppm	ASTM D5185m	>21	<b>2</b>	2	1
Lead	ppm	ASTM D5185m	>49	<b>1</b>	1	1
Copper	ppm	ASTM D5185m	>101	<b>33</b>	47	8
Tin	ppm	ASTM D5185m	>10	<b>1</b>	<1	0
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

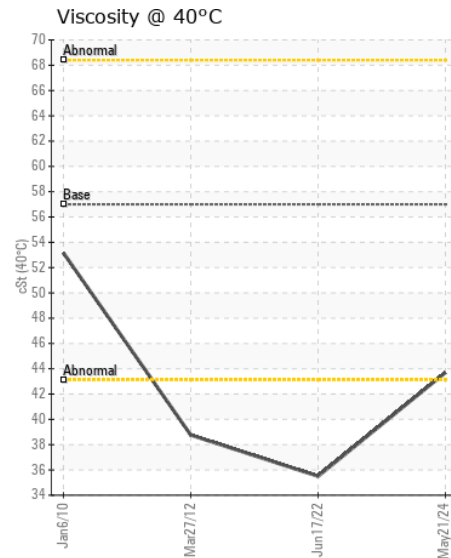
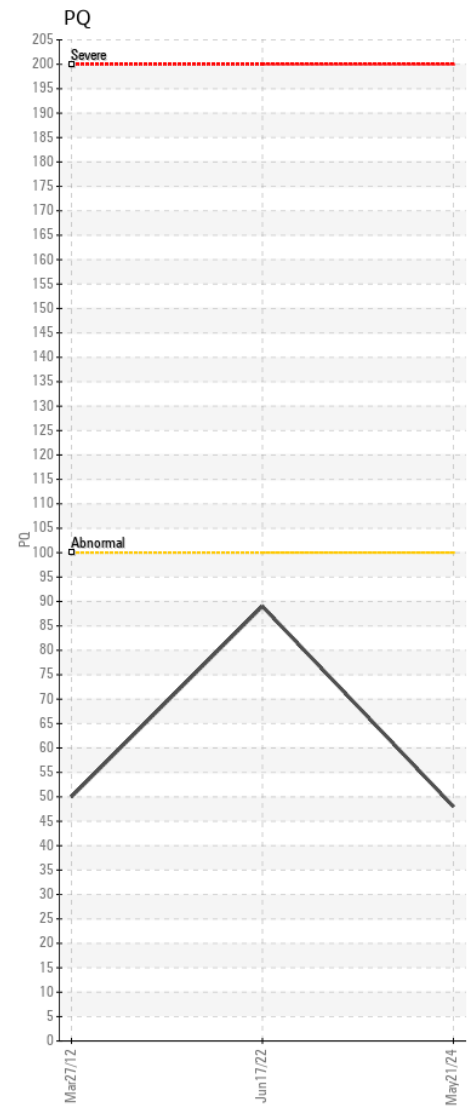
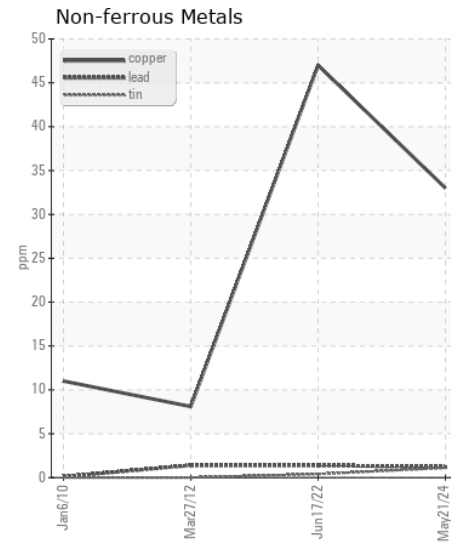
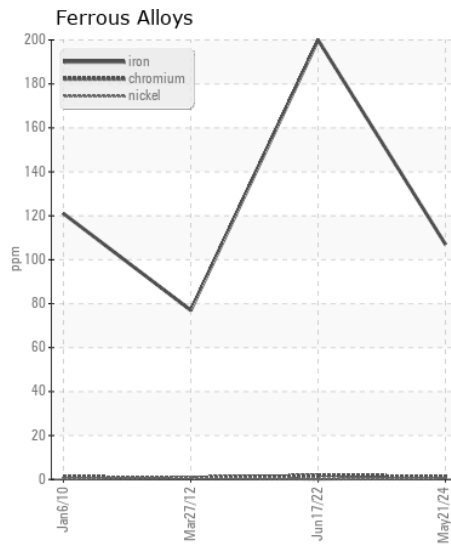
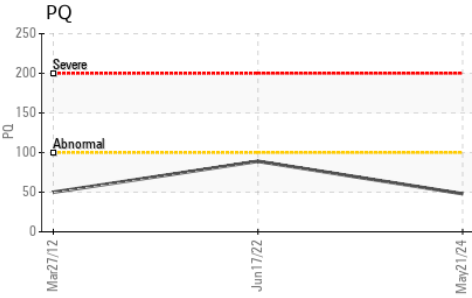
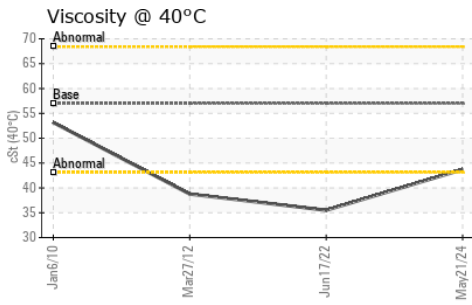
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>31	<b>12</b>	16	14
Potassium	ppm	ASTM D5185m	>20	<b>4</b>	<1	0
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	<b>NEG</b>	NEG	NEG

## FLUID CONDITION

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

Sodium	ppm	ASTM D5185m	>51	<b>&lt;1</b>	2	2
Boron	ppm	ASTM D5185m	6	<b>4</b>	8	6
Barium	ppm	ASTM D5185m	0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	0	<b>2</b>	2	3
Manganese	ppm	ASTM D5185m		<b>2</b>	3	2
Magnesium	ppm	ASTM D5185m	145	<b>59</b>	27	25
Calcium	ppm	ASTM D5185m	3570	<b>3326</b>	3024	3350
Phosphorus	ppm	ASTM D5185m	1290	<b>1047</b>	1128	1272
Zinc	ppm	ASTM D5185m	1640	<b>1322</b>	1242	1336
Sulfur	ppm	ASTM D5185m		<b>4365</b>	4048	3980
Visc @ 40°C	cSt	ASTM D445	57.0	<b>43.7</b>	35.5	38.76



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : LEC0049350 **Received** : 23 May 2024  
**Lab Number** : 06189535 **Tested** : 24 May 2024  
**Unique Number** : 11046287 **Diagnosed** : 24 May 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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