



# OIL ANALYSIS REPORT

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

Area  
**Store 9 - Marietta**  
Machine Id  
**JOHN DEERE 304L 1LU304LXLZB048374**  
Component  
**Hydraulic System**  
Fluid  
**JOHN DEERE HYDRAU (24 GAL)**

## RECOMMENDATION

We recommend you service the filters on this component. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>LEC0013799</b>	LEC0009931	---
Sample Date		Client Info		<b>31 Jul 2020</b>	08 Apr 2020	---
Machine Age	hrs	Client Info		<b>2453</b>	1970	---
Oil Age	hrs	Client Info		<b>2453</b>	1970	---
Filter Age	hrs	Client Info		<b>2453</b>	0	---
Oil Changed		Client Info		<b>Not Changd</b>	Not Changd	---
Filter Changed		Client Info		<b>N/A</b>	N/A	---
Sample Status				<b>ABNORMAL</b>	ABNORMAL	---

## WEAR

All component wear rates are normal.

PQ		ASTM D8184		<b>20</b>	24	---
Iron	ppm	ASTM D5185m	>20	<b>4</b>	6	---
Chromium	ppm	ASTM D5185m	>10	<b>&lt;1</b>	1	---
Nickel	ppm	ASTM D5185m		<b>0</b>	<1	---
Titanium	ppm	ASTM D5185m		<b>0</b>	<1	---
Silver	ppm	ASTM D5185m		<b>0</b>	0	---
Aluminum	ppm	ASTM D5185m	>10	<b>1</b>	2	---
Lead	ppm	ASTM D5185m	>10	<b>&lt;1</b>	<1	---
Copper	ppm	ASTM D5185m	>75	<b>3</b>	2	---
Tin	ppm	ASTM D5185m	>10	<b>0</b>	<1	---
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	---
White Metal	scalar	*Visual	NONE	<b>LIGHT</b>	VLITE	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---

## CONTAMINATION

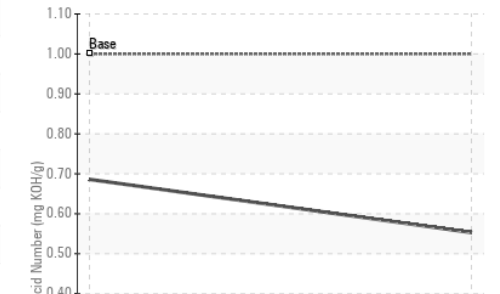
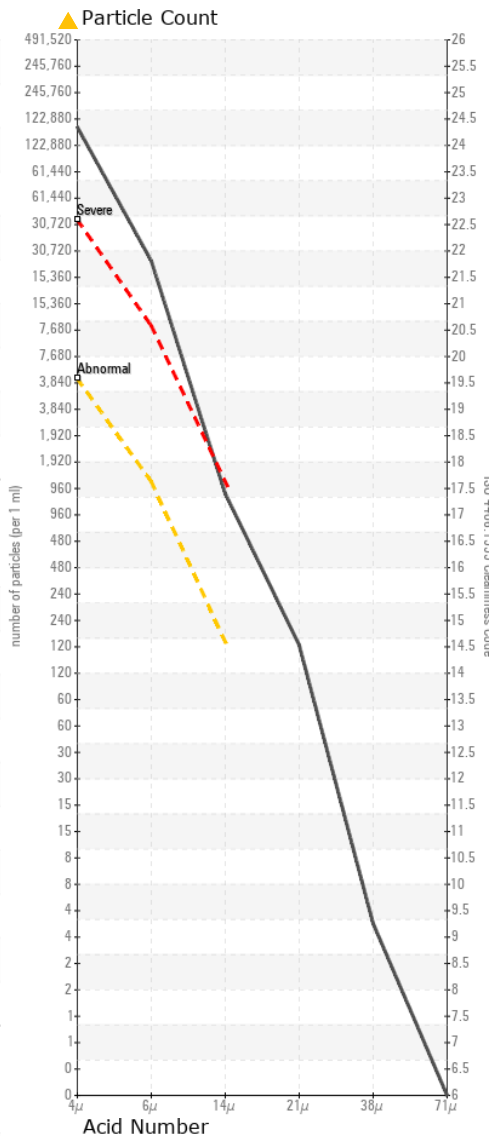
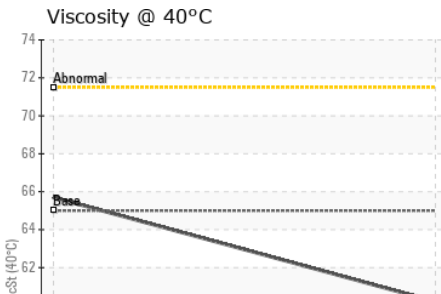
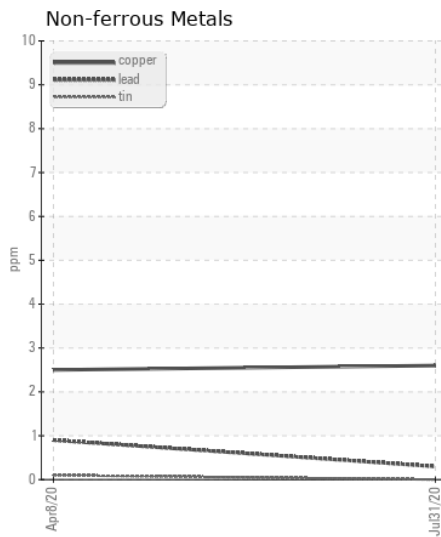
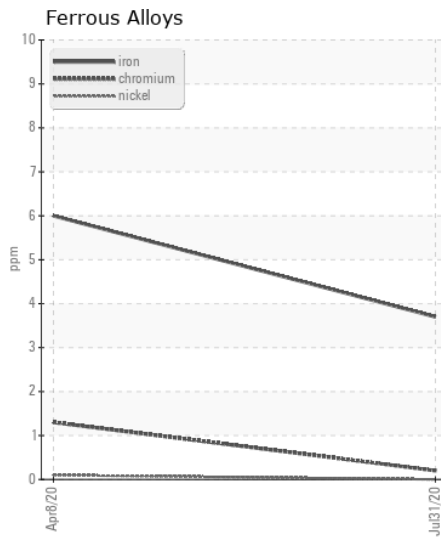
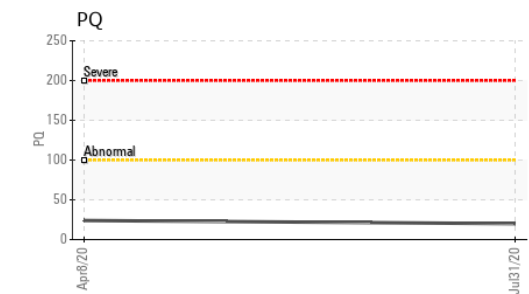
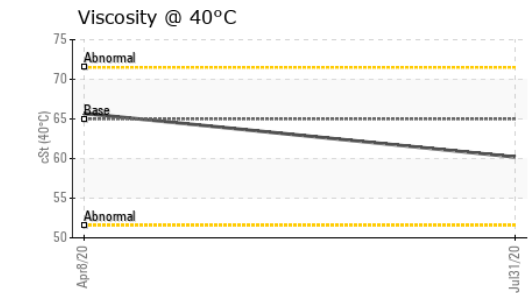
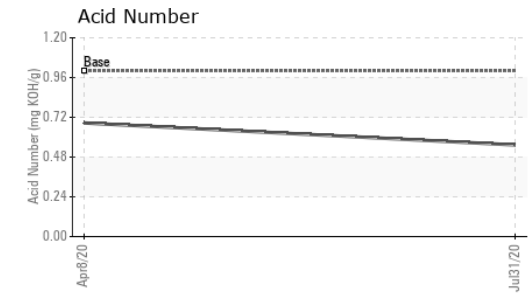
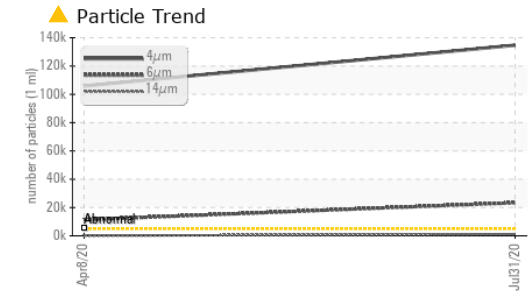
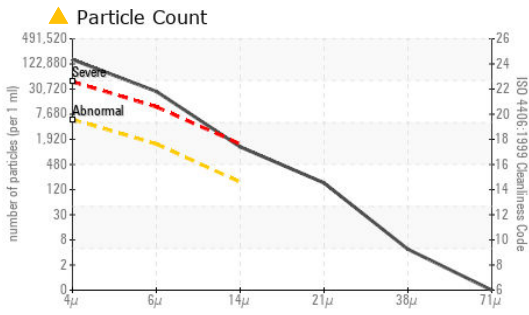
There is a high amount of particulates present in the oil.

Silicon	ppm	ASTM D5185m	>20	<b>3</b>	2	---
Potassium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	1	---
Water		WC Method	>0.1	<b>NEG</b>	NEG	---
Particles >4µm		ASTM D7647	>5000	<b>▲ 134707</b>	▲ 105890	---
Particles >6µm		ASTM D7647	>1300	<b>▲ 23377</b>	▲ 11362	---
Particles >14µm		ASTM D7647	>160	<b>▲ 1112</b>	88	---
Particles >21µm		ASTM D7647	>40	<b>▲ 153</b>	17	---
Particles >38µm		ASTM D7647	>10	<b>4</b>	1	---
Particles >71µm		ASTM D7647	>3	<b>0</b>	0	---
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<b>▲ 24/22/17</b>	▲ 24/21/14	---
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Debris	scalar	*Visual	NONE	<b>LIGHT</b>	NONE	---
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	---
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	---
Emulsified Water	scalar	*Visual	>0.1	<b>NEG</b>	NEG	---

## FLUID CONDITION

The AN level is acceptable for this fluid. The condition of the oils additive package is suitable for further service.

Sodium	ppm	ASTM D5185m		<b>2</b>	1	---
Boron	ppm	ASTM D5185m		<b>7</b>	7	---
Barium	ppm	ASTM D5185m		<b>&lt;1</b>	0	---
Molybdenum	ppm	ASTM D5185m		<b>2</b>	<1	---
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	---
Magnesium	ppm	ASTM D5185m		<b>11</b>	8	---
Calcium	ppm	ASTM D5185m	87	<b>1078</b>	1199	---
Phosphorus	ppm	ASTM D5185m	727	<b>201</b>	316	---
Zinc	ppm	ASTM D5185m	900	<b>290</b>	395	---
Sulfur	ppm	ASTM D5185m	1500	<b>3060</b>	3460	---
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	<b>0.553</b>	0.686	---
Visc @ 40°C	cSt	ASTM D445	65	<b>60.2</b>	65.7	---



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : LEC0013799 **Received** : 11 Aug 2020  
**Lab Number** : 05040979 **Diagnosed** : 13 Aug 2020  
**Unique Number** : 9131149 **Diagnostician** : Jonathan Hester  
**Test Package** : MOBCE ( Additional Tests: PQ )

**LESLIE EQUIPMENT COMPANY**  
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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)