



# OIL ANALYSIS REPORT

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



Area  
**Store 9 - Marietta**  
Machine Id  
**JOHN DEERE 544L 1DW544LZVKF695734**  
Component  
**Hydraulic System**  
Fluid  
**JOHN DEERE HYDRAU (22 GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>LEC0043821</b>	LEC0038220	LEC0037157
Sample Date		Client Info		<b>17 Aug 2023</b>	06 Apr 2023	20 Dec 2022
Machine Age	hrs	Client Info		<b>6864</b>	6347	5934
Oil Age	hrs	Client Info		<b>6864</b>	6347	5934
Filter Age	hrs	Client Info		<b>517</b>	413	5934
Oil Changed		Client Info		<b>Not Changd</b>	Not Changd	Not Changd
Filter Changed		Client Info		<b>Not Changd</b>	Not Changd	N/A
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

## WEAR

All component wear rates are normal.

PQ		ASTM D8184	>50	<b>15</b>	12	12
Iron	ppm	ASTM D5185m	>71	<b>32</b>	26	25
Chromium	ppm	ASTM D5185m	>11	<b>24</b>	21	19
Nickel	ppm	ASTM D5185m	>6	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>11	<b>2</b>	0	2
Lead	ppm	ASTM D5185m	>13	<b>0</b>	<1	<1
Copper	ppm	ASTM D5185m	>21	<b>3</b>	3	3
Tin	ppm	ASTM D5185m	>5	<b>0</b>	0	<1
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

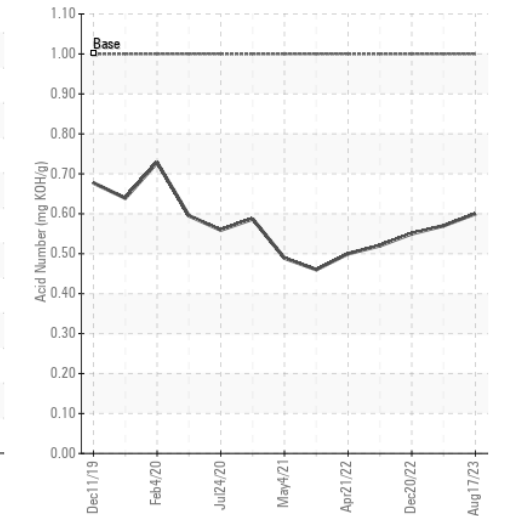
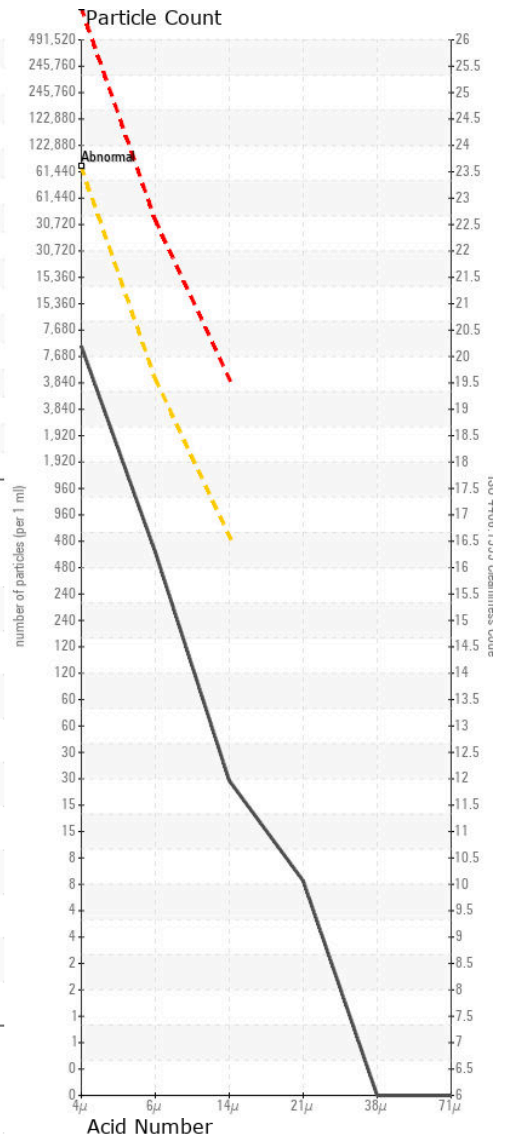
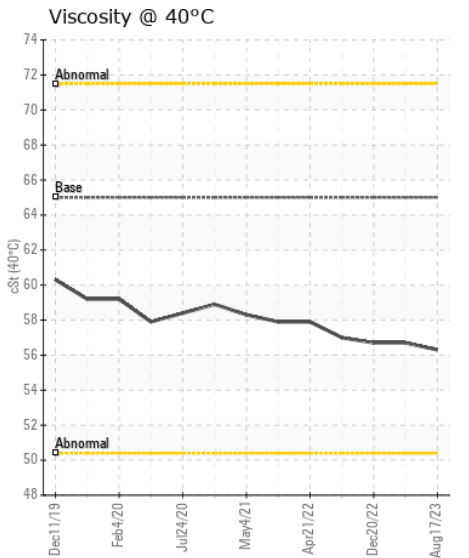
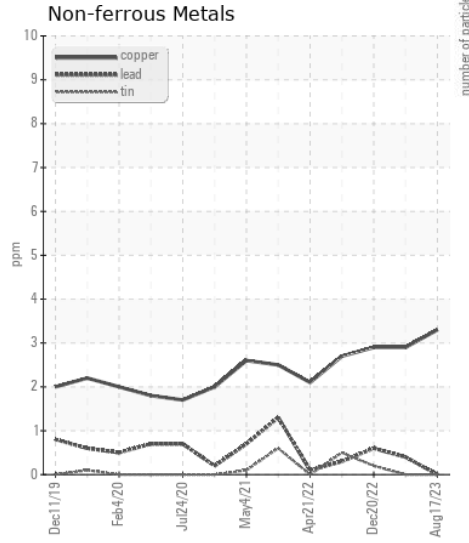
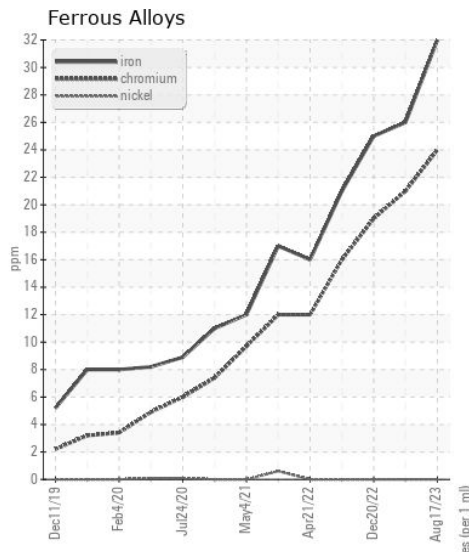
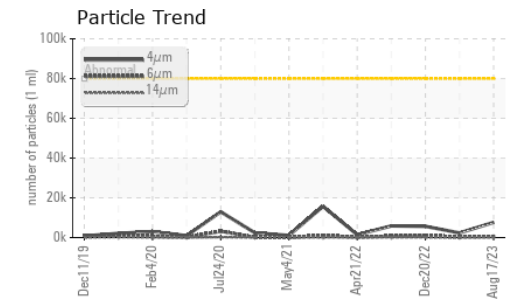
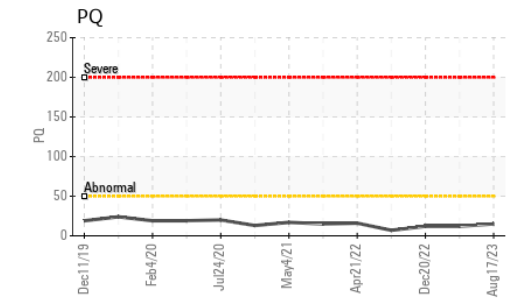
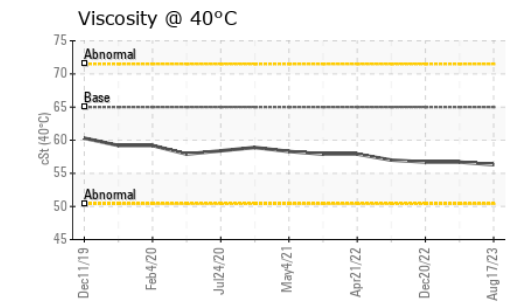
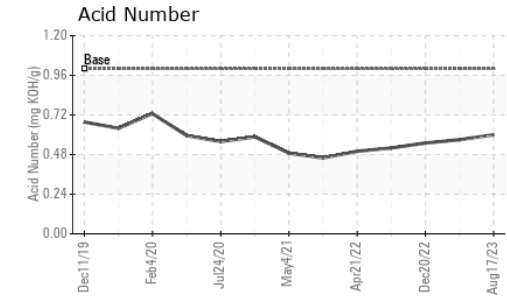
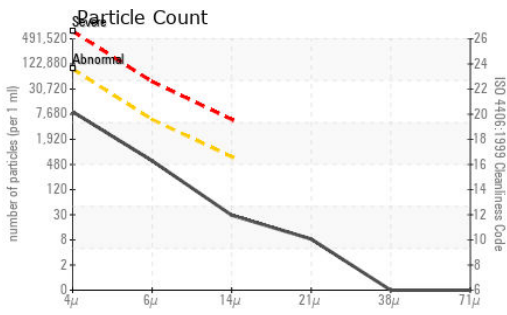
The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the fluid.

Silicon	ppm	ASTM D5185m	>24	<b>5</b>	4	4
Potassium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	2	2
Water		WC Method	>0.075	<b>NEG</b>	NEG	NEG
Particles >4µm		ASTM D7647	>80000	<b>7654</b>	2327	5655
Particles >6µm		ASTM D7647	>5000	<b>518</b>	343	925
Particles >14µm		ASTM D7647	>640	<b>26</b>	23	75
Particles >21µm		ASTM D7647	>160	<b>7</b>	5	15
Particles >38µm		ASTM D7647	>40	<b>0</b>	0	1
Particles >71µm		ASTM D7647	>10	<b>0</b>	0	0
Oil Cleanliness		ISO 4406 (c)	>23/19/16	<b>20/16/12</b>	18/16/12	20/17/13
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	VLITE
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	>0.075	<b>NEG</b>	NEG	NEG

## FLUID CONDITION

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

Sodium	ppm	ASTM D5185m	>21	<b>4</b>	3	3
Boron	ppm	ASTM D5185m		<b>0</b>	0	<1
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m		<b>6</b>	4	2
Calcium	ppm	ASTM D5185m	87	<b>104</b>	99	100
Phosphorus	ppm	ASTM D5185m	727	<b>609</b>	595	654
Zinc	ppm	ASTM D5185m	900	<b>782</b>	785	802
Sulfur	ppm	ASTM D5185m	1500	<b>1834</b>	1634	1981
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	<b>0.60</b>	0.57	0.55
Visc @ 40°C	cSt	ASTM D445	65	<b>56.3</b>	56.7	56.7



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : LEC0043821 **Received** : 22 Aug 2023  
**Lab Number** : 05930796 **Tested** : 23 Aug 2023  
**Unique Number** : 10616067 **Diagnosed** : 23 Aug 2023 - Don Baldrige  
**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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