



# OIL ANALYSIS REPORT

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



Area  
**Store 9 - Marietta**  
Machine Id  
**JOHN DEERE 850L 1T0850LXHFKF365119**  
Component  
**Hydraulic System**  
Fluid  
**JOHN DEERE HYDRAU (31 GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>LEC0050183</b>	LEC0045553	LEC0037513
Sample Date		Client Info		<b>15 May 2024</b>	26 Oct 2023	18 Jan 2023
Machine Age	hrs	Client Info		<b>2017</b>	1524	980
Oil Age	hrs	Client Info		<b>2017</b>	1524	980
Filter Age	hrs	Client Info		<b>2017</b>	1524	980
Oil Changed		Client Info		<b>Not Changd</b>	Not Changd	Not Changd
Filter Changed		Client Info		<b>Changd</b>	Not Changd	Not Changd
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

## WEAR

All component wear rates are normal.

PQ		ASTM D8184	>50	<b>18</b>	11	10
Iron	ppm	ASTM D5185m	>23	<b>22</b>	17	11
Chromium	ppm	ASTM D5185m	>9	<b>2</b>	2	2
Nickel	ppm	ASTM D5185m	>5	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m		<b>0</b>	<1	0
Silver	ppm	ASTM D5185m		<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185m	>9	<b>3</b>	1	3
Lead	ppm	ASTM D5185m	>28	<b>1</b>	0	<1
Copper	ppm	ASTM D5185m	>51	<b>1</b>	2	2
Tin	ppm	ASTM D5185m	>5	<b>&lt;1</b>	1	<1
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	<1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

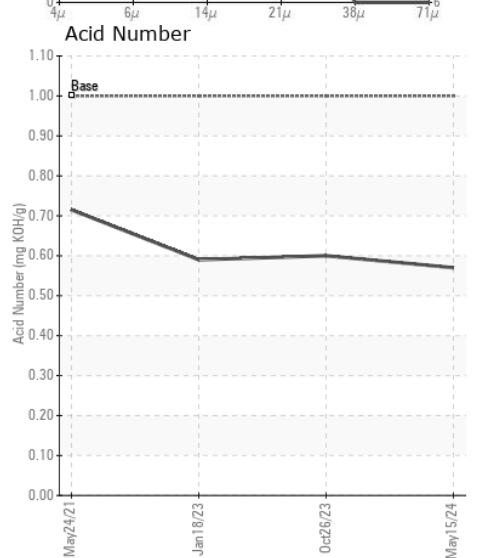
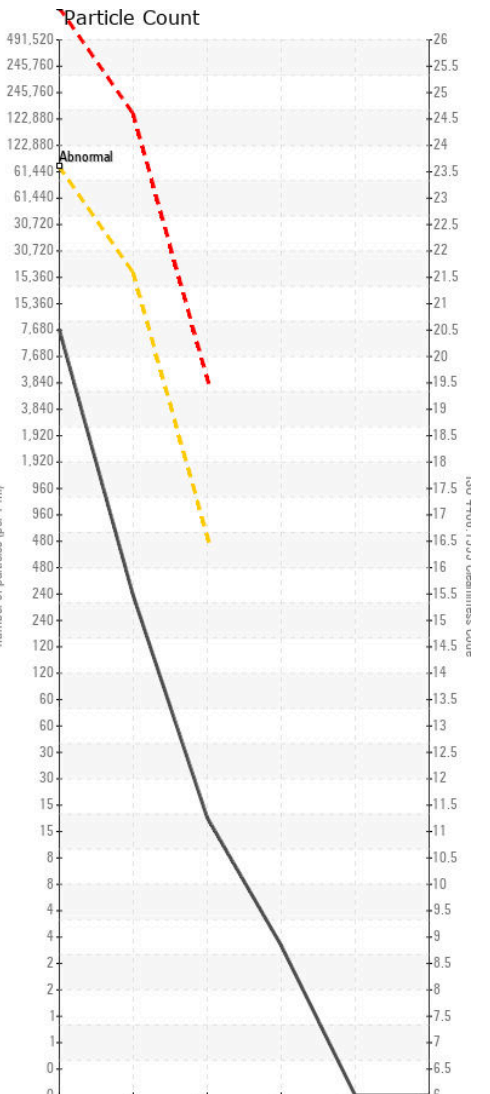
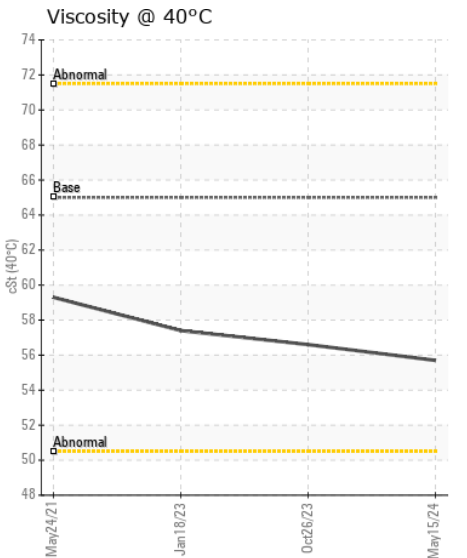
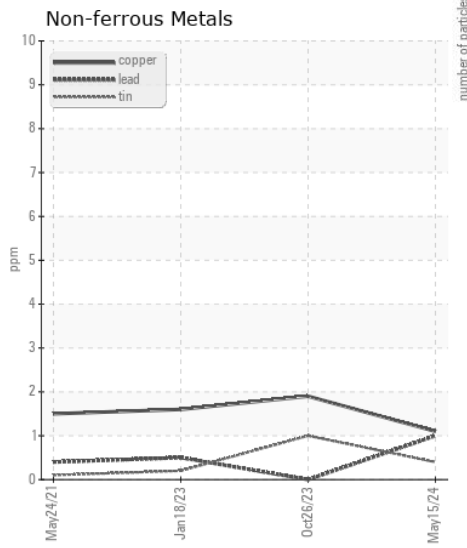
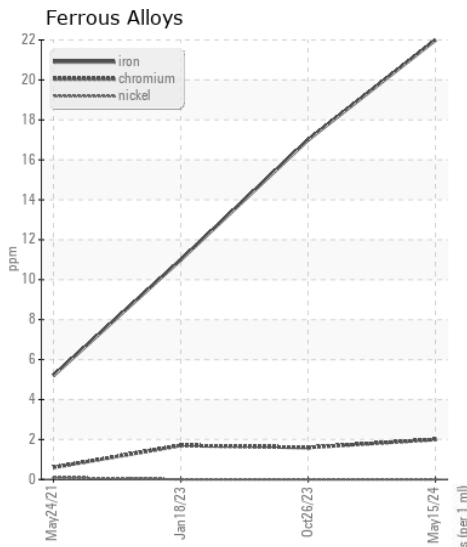
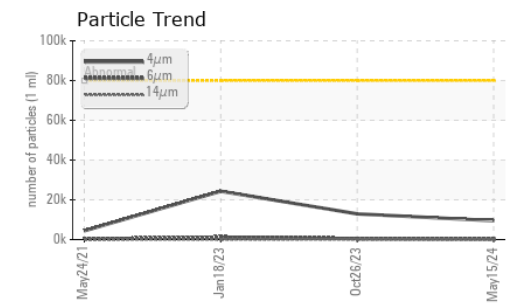
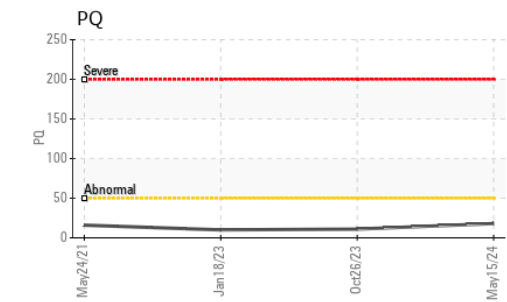
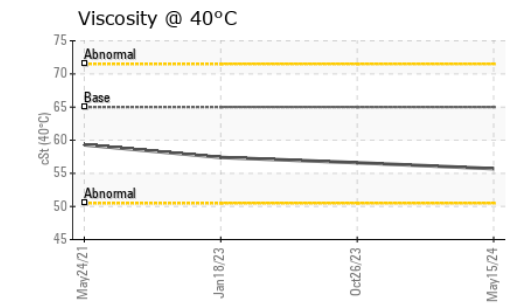
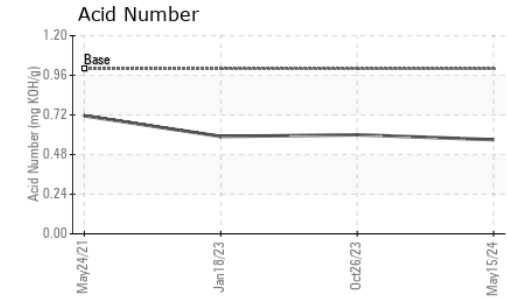
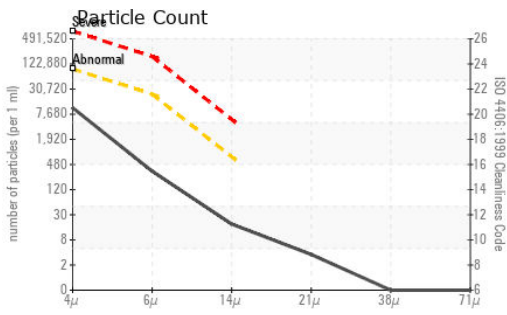
The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

Silicon	ppm	ASTM D5185m	>31	<b>6</b>	4	3
Potassium	ppm	ASTM D5185m	>20	<b>3</b>	3	4
Water		WC Method	>0.075	<b>NEG</b>	NEG	NEG
Particles >4µm		ASTM D7647	>80000	<b>9490</b>	12933	24331
Particles >6µm		ASTM D7647	>20000	<b>292</b>	479	1224
Particles >14µm		ASTM D7647	>640	<b>16</b>	34	25
Particles >21µm		ASTM D7647	>160	<b>3</b>	9	4
Particles >38µm		ASTM D7647	>40	<b>0</b>	1	0
Particles >71µm		ASTM D7647	>10	<b>0</b>	0	0
Oil Cleanliness		ISO 4406 (c)	>23/21/16	<b>20/15/11</b>	21/16/12	22/17/12
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 oil is suitable for further service.

Sodium	ppm	ASTM D5185m	>21	<b>2</b>	2	0
Boron	ppm	ASTM D5185m		<b>21</b>	22	22
Barium	ppm	ASTM D5185m		<b>0</b>	20	1
Molybdenum	ppm	ASTM D5185m		<b>4</b>	4	4
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m		<b>15</b>	15	18
Calcium	ppm	ASTM D5185m	87	<b>447</b>	433	457
Phosphorus	ppm	ASTM D5185m	727	<b>705</b>	674	610
Zinc	ppm	ASTM D5185m	900	<b>850</b>	805	803
Sulfur	ppm	ASTM D5185m	1500	<b>2072</b>	2292	1724
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	<b>0.57</b>	0.60	0.59
Visc @ 40°C	cSt	ASTM D445	65	<b>55.7</b>	56.6	57.4



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : LEC0050183 **Received** : 21 May 2024  
**Lab Number** : 06186043 **Tested** : 22 May 2024  
**Unique Number** : 11042795 **Diagnosed** : 22 May 2024 - Wes Davis  
**Test Package** : CONST ( Additional Tests: PQ )

**LESLIE EQUIPMENT COMPANY**  
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 US 45750-9765  
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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)