



# OIL ANALYSIS REPORT

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



Area  
**Store 8 - Pikeville [RO#144140]**  
Machine Id  
**JOHN DEERE 310E 1DW310EXPNF713877**  
Component  
**Transmission (Auto)**  
Fluid  
**JOHN DEERE HD SynTran (16 GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>LEC0042217</b>	LEC0039371	LEC0039511
Sample Date		Client Info		<b>17 Oct 2023</b>	29 Mar 2023	22 Feb 2023
Machine Age	hrs	Client Info		<b>1943</b>	1036	931
Oil Age	hrs	Client Info		<b>907</b>	1036	931
Filter Age	hrs	Client Info		<b>907</b>	1036	931
Oil Changed		Client Info		<b>Changed</b>	Changed	Not Changd
Filter Changed		Client Info		<b>Changed</b>	Changed	Not Changd
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

## WEAR

All component wear rates are normal.

PQ		ASTM D8184	>50	<b>33</b>	19	26
Iron	ppm	ASTM D5185m	>160	<b>84</b>	42	40
Chromium	ppm	ASTM D5185m	>5	<b>&lt;1</b>	0	0
Nickel	ppm	ASTM D5185m	>5	<b>&lt;1</b>	0	0
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Silver	ppm	ASTM D5185m	>5	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>50	<b>2</b>	0	<1
Lead	ppm	ASTM D5185m	>50	<b>1</b>	<1	2
Copper	ppm	ASTM D5185m	>225	<b>2</b>	<1	2
Tin	ppm	ASTM D5185m	>10	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

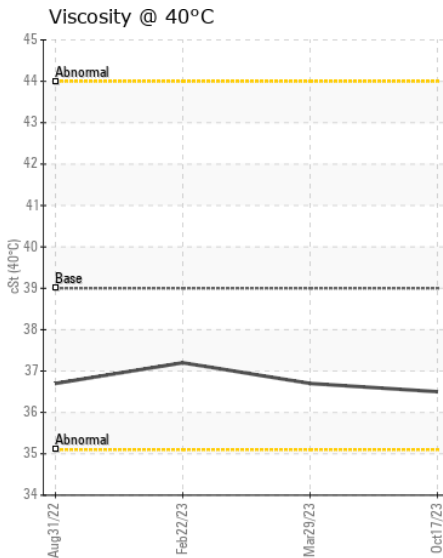
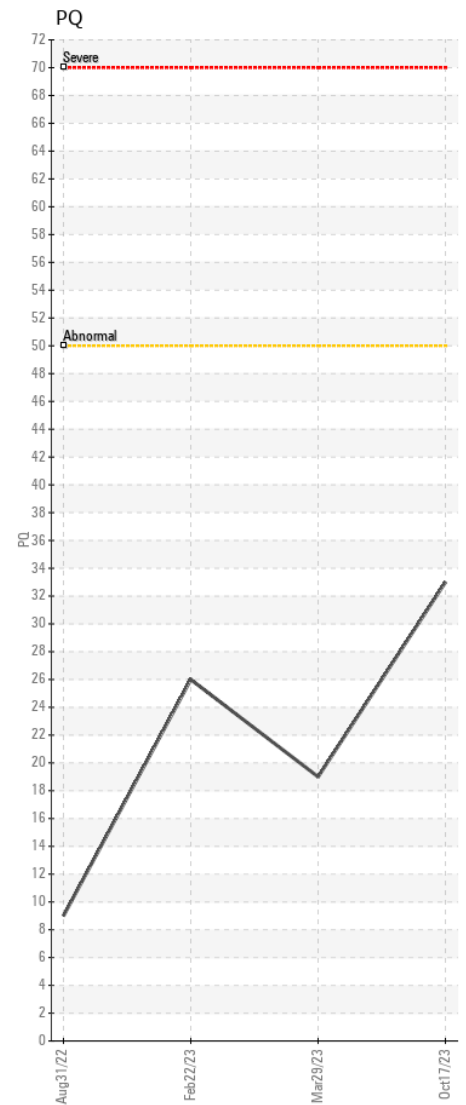
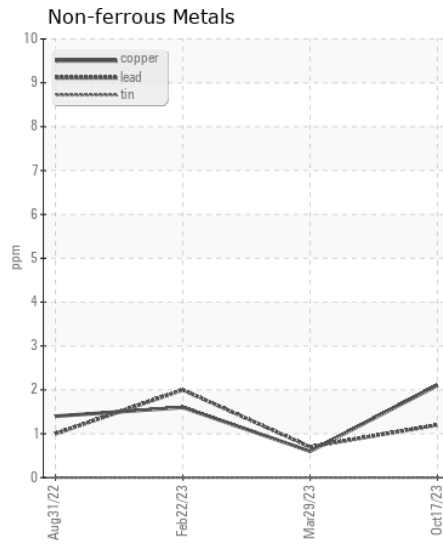
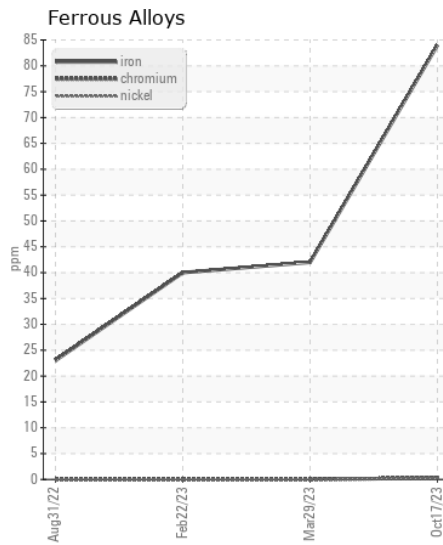
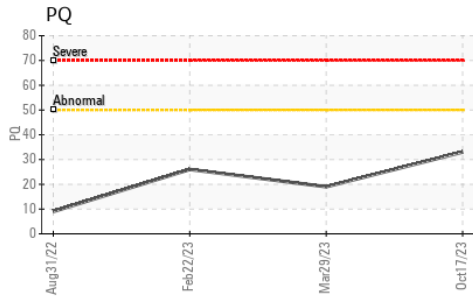
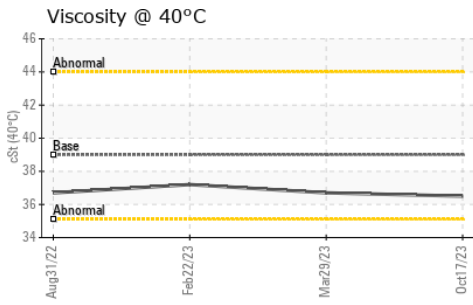
There is no indication of any contamination in the fluid.

Silicon	ppm	ASTM D5185m	>20	<b>5</b>	5	6
Potassium	ppm	ASTM D5185m	>20	<b>4</b>	4	2
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 fluid is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		<b>2</b>	2	3
Boron	ppm	ASTM D5185m	168	<b>121</b>	109	129
Barium	ppm	ASTM D5185m		<b>11</b>	0	<1
Molybdenum	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Manganese	ppm	ASTM D5185m		<b>1</b>	1	<1
Magnesium	ppm	ASTM D5185m		<b>1</b>	<1	2
Calcium	ppm	ASTM D5185m	33	<b>118</b>	128	144
Phosphorus	ppm	ASTM D5185m	330	<b>319</b>	283	285
Zinc	ppm	ASTM D5185m	0	<b>34</b>	16	43
Sulfur	ppm	ASTM D5185m	980	<b>537</b>	186	668
Visc @ 40°C	cSt	ASTM D445	39	<b>36.5</b>	36.7	37.2



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : LEC0042217 **Received** : 23 Oct 2023  
**Lab Number** : 05986790 **Tested** : 24 Oct 2023  
**Unique Number** : 10709452 **Diagnosed** : 25 Oct 2023 - Sean Felton  
**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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