



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
Store 8 - Pikeville [ro#144140]
Machine Id
JOHN DEERE 310E 1DW310EXPNF713877
Component
Center Axle
Fluid
JOHN DEERE HY-GARD HYD/TRANS (10 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LEC0042212	LEC0039506	LEC0032153
Sample Date		Client Info		17 Oct 2023	22 Feb 2023	31 Aug 2022
Machine Age	hrs	Client Info		1943	931	515
Oil Age	hrs	Client Info		1428	416	515
Filter Age	hrs	Client Info		1943	0	0
Oil Changed		Client Info		Changed	Not Changd	Changed
Filter Changed		Client Info		Changed	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

PQ		ASTM D8184		164	155	123
Iron	ppm	ASTM D5185m	>1501	287	186	86
Chromium	ppm	ASTM D5185m	>11	2	2	1
Nickel	ppm	ASTM D5185m	>10	8	5	0
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>21	2	4	3
Lead	ppm	ASTM D5185m	>51	<1	2	<1
Copper	ppm	ASTM D5185m	>101	161	75	76
Tin	ppm	ASTM D5185m	>10	6	4	2
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	MODER	MODER	MODER
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

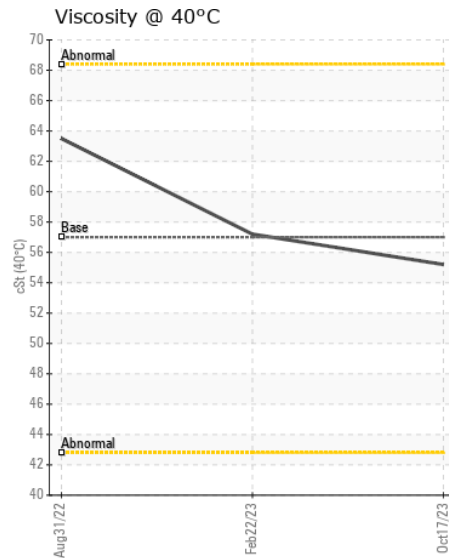
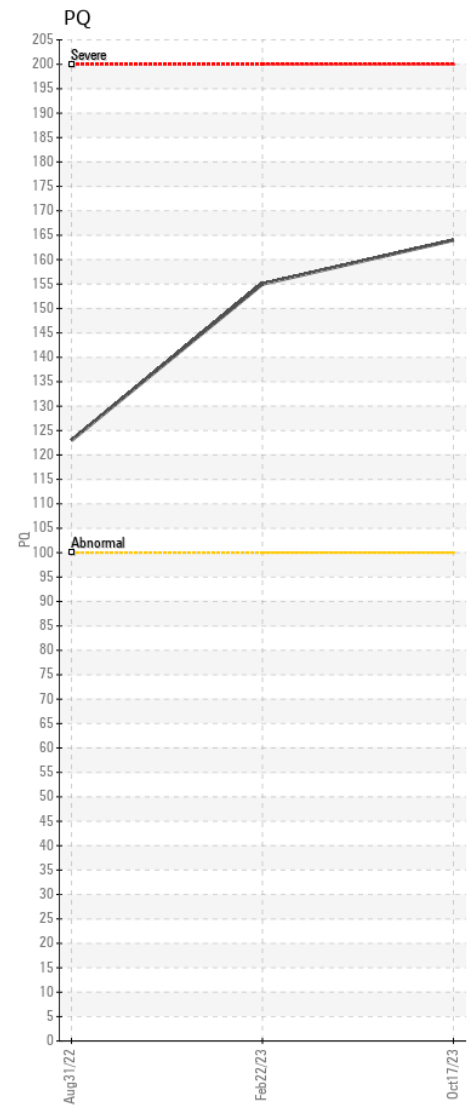
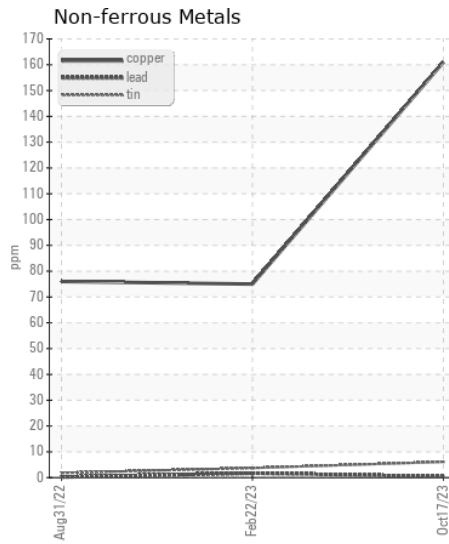
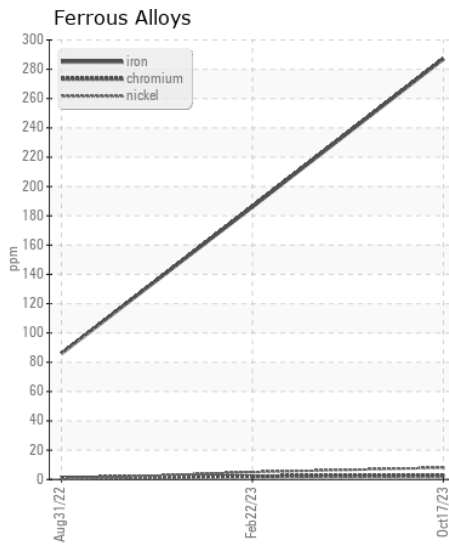
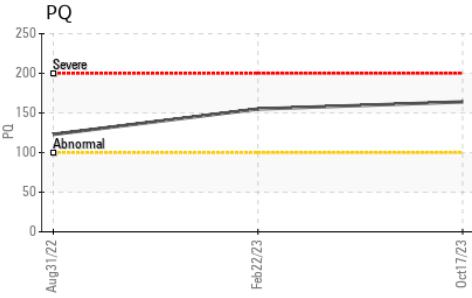
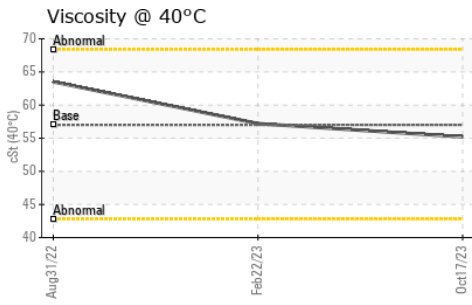
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>31	19	15	11
Potassium	ppm	ASTM D5185m	>20	3	<1	2
Water		WC Method	>0.1	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	NONE	MODER
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m	>51	9	12	15
Boron	ppm	ASTM D5185m	6	54	53	116
Barium	ppm	ASTM D5185m	0	11	<1	0
Molybdenum	ppm	ASTM D5185m	0	<1	<1	<1
Manganese	ppm	ASTM D5185m		31	31	26
Magnesium	ppm	ASTM D5185m	145	61	62	8
Calcium	ppm	ASTM D5185m	3570	3535	3412	3275
Phosphorus	ppm	ASTM D5185m	1290	1202	1035	1125
Zinc	ppm	ASTM D5185m	1640	1379	1292	1319
Sulfur	ppm	ASTM D5185m		4525	3892	2977
Visc @ 40°C	cSt	ASTM D445	57.0	55.2	57.2	63.5



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LEC0042212 **Received** : 23 Oct 2023
Lab Number : 05986875 **Tested** : 24 Oct 2023
Unique Number : 10709537 **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)

T: (740)373-5570