



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
Store 8 - Pikeville [139128]
Machine Id
JOHN DEERE 310E 1DW310EXVNF714534
Component
Hydraulic System
Fluid
JOHN DEERE HYDRAU (30 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LEC0040433	LEC0036854	---
Sample Date		Client Info		05 Jun 2023	20 Dec 2022	---
Machine Age	hrs	Client Info		1046	486	---
Oil Age	hrs	Client Info		1046	486	---
Filter Age	hrs	Client Info		1046	0	---
Oil Changed		Client Info		Not Changd	Not Changd	---
Filter Changed		Client Info		Not Changd	Not Changd	---
Sample Status				NORMAL	NORMAL	---

WEAR

All component wear rates are normal.

PQ		ASTM D8184	>50	10	6	---
Iron	ppm	ASTM D5185m	>71	2	1	---
Chromium	ppm	ASTM D5185m	>11	<1	<1	---
Nickel	ppm	ASTM D5185m	>6	0	0	---
Titanium	ppm	ASTM D5185m		<1	0	---
Silver	ppm	ASTM D5185m		0	0	---
Aluminum	ppm	ASTM D5185m	>11	<1	<1	---
Lead	ppm	ASTM D5185m	>13	0	<1	---
Copper	ppm	ASTM D5185m	>21	1	<1	---
Tin	ppm	ASTM D5185m	>5	0	<1	---
Vanadium	ppm	ASTM D5185m		0	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

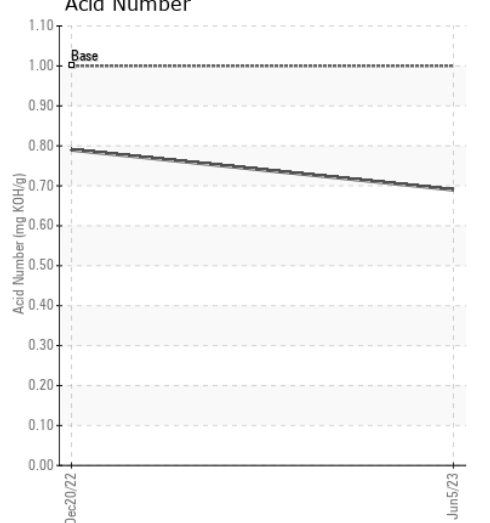
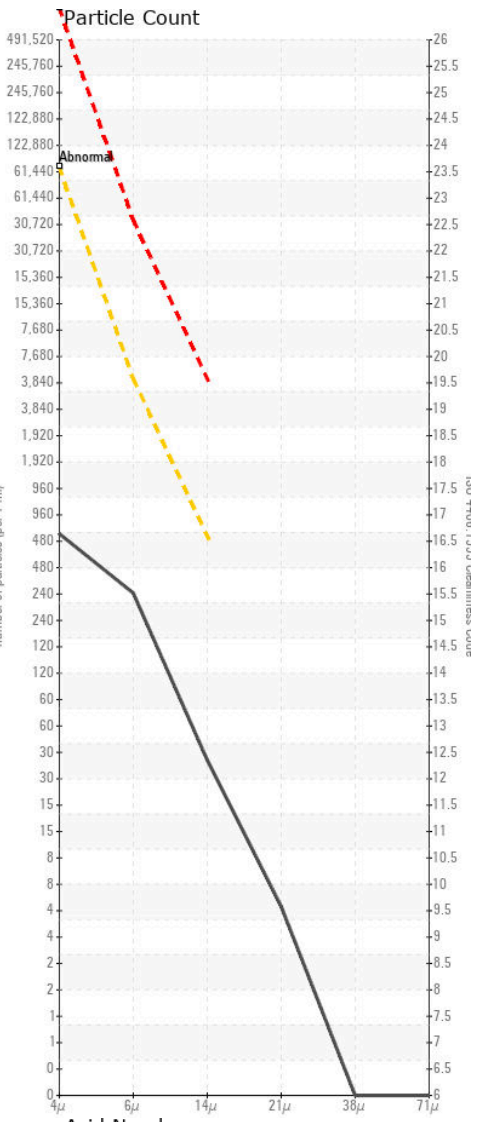
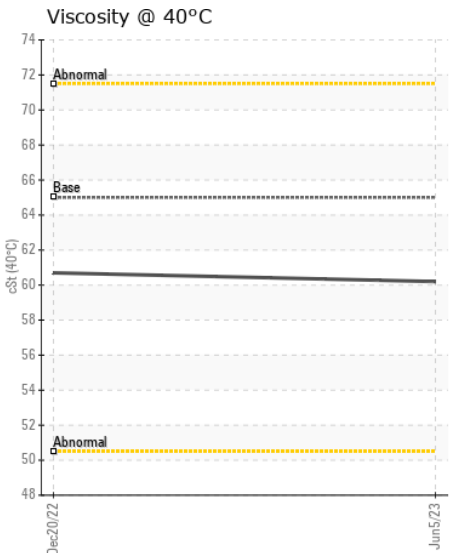
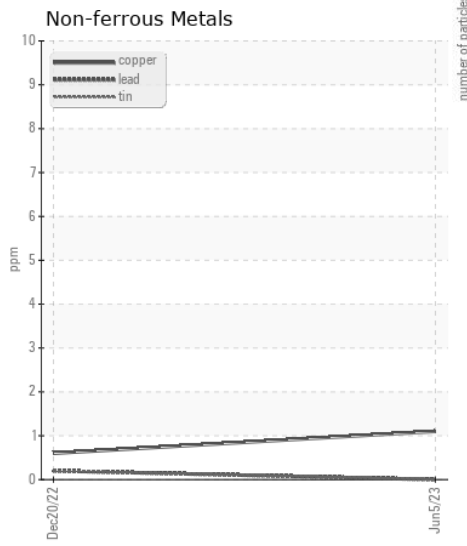
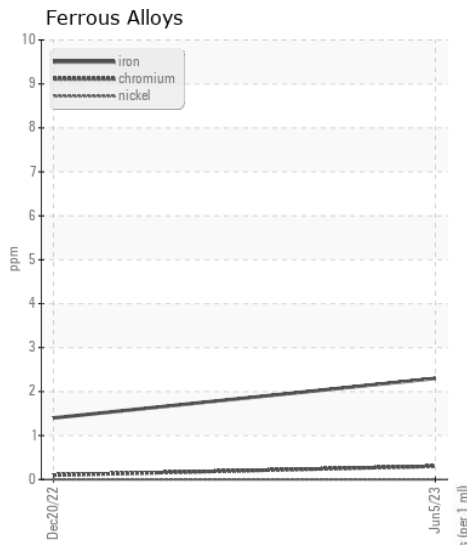
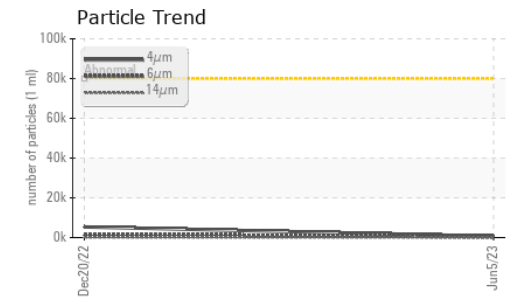
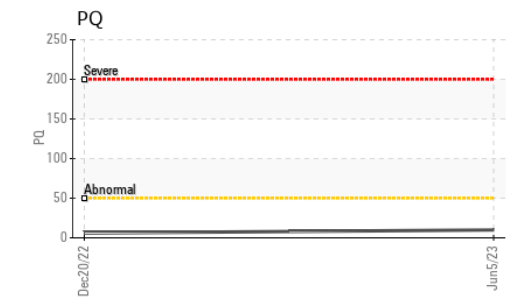
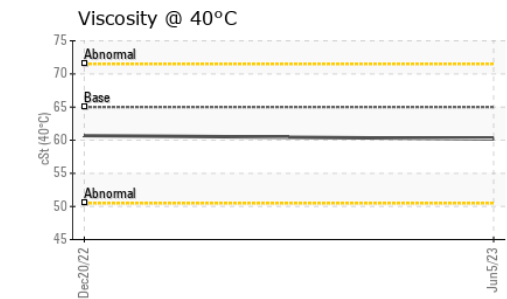
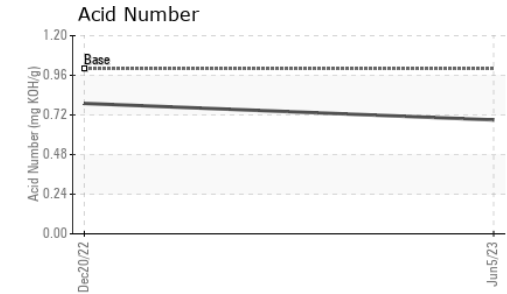
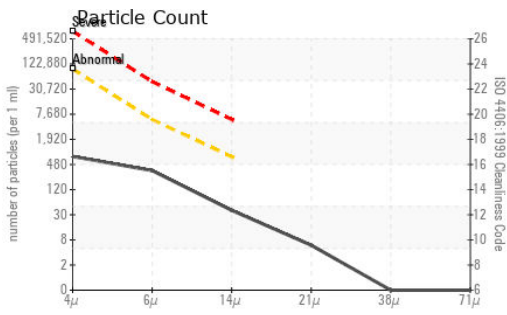
The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>24	3	2	---
Potassium	ppm	ASTM D5185m	>20	<1	2	---
Water		WC Method	>0.075	NEG	NEG	---
Particles >4µm		ASTM D7647	>80000	657	5358	---
Particles >6µm		ASTM D7647	>5000	302	1740	---
Particles >14µm		ASTM D7647	>640	34	107	---
Particles >21µm		ASTM D7647	>160	5	20	---
Particles >38µm		ASTM D7647	>40	0	2	---
Particles >71µm		ASTM D7647	>10	0	0	---
Oil Cleanliness		ISO 4406 (c)	>23/19/16	17/15/12	20/18/14	---
Silt	scalar	*Visual	NONE	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.075	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	2	2	---
Boron	ppm	ASTM D5185m		0	0	---
Barium	ppm	ASTM D5185m		0	0	---
Molybdenum	ppm	ASTM D5185m		<1	<1	---
Manganese	ppm	ASTM D5185m		<1	<1	---
Magnesium	ppm	ASTM D5185m		<1	0	---
Calcium	ppm	ASTM D5185m	87	98	101	---
Phosphorus	ppm	ASTM D5185m	727	620	707	---
Zinc	ppm	ASTM D5185m	900	885	907	---
Sulfur	ppm	ASTM D5185m	1500	2026	2175	---
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	0.69	0.79	---
Visc @ 40°C	cSt	ASTM D445	65	60.2	60.7	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
 Sample No. : LEC0040433 Received : 08 Jun 2023
 Lab Number : 05867784 Tested : 09 Jun 2023
 Unique Number : 10507568 Diagnosed : 09 Jun 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)

T: (740)373-5570