



OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
Store 8 - Pikeville [139128]
Machine Id
JOHN DEERE 310E 1DW310EXVNF714534
Component
Front Axle
Fluid
JOHN DEERE HY-GARD HYD/TRANS (10 GAL)

RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LEC0040435	LEC0036853	---
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		0	486	---
Oil Changed		Client Info		Not Changd	Not Changd	---
Filter Changed		Client Info		N/A	None	---
Sample Status				ABNORMAL	NORMAL	---

WEAR

The copper level is abnormal. The nickel level is abnormal. All other metal levels are typical for a new component breaking in.

PQ		ASTM D8184		298	183	---
Iron	ppm	ASTM D5185m	>1501	367	199	---
Chromium	ppm	ASTM D5185m	>11	5	3	---
Nickel	ppm	ASTM D5185m	>10	▲ 23	13	---
Titanium	ppm	ASTM D5185m		<1	<1	---
Silver	ppm	ASTM D5185m		0	0	---
Aluminum	ppm	ASTM D5185m	>21	4	4	---
Lead	ppm	ASTM D5185m	>51	<1	2	---
Copper	ppm	ASTM D5185m	>101	▲ 152	102	---
Tin	ppm	ASTM D5185m	>10	9	6	---
Vanadium	ppm	ASTM D5185m		<1	0	---
White Metal	scalar	*Visual	NONE	MODER	LIGHT	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

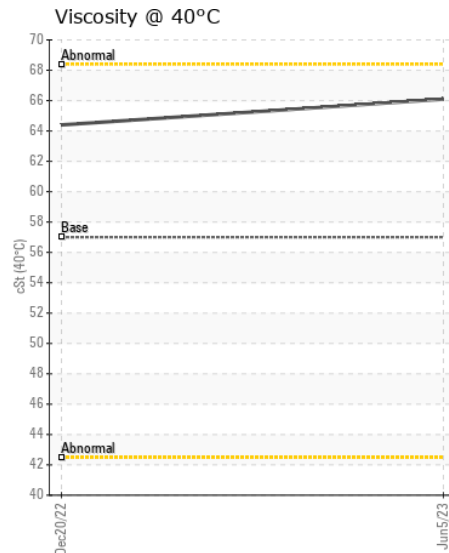
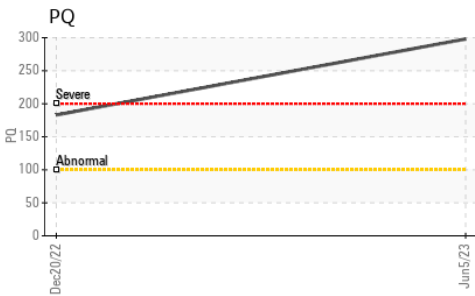
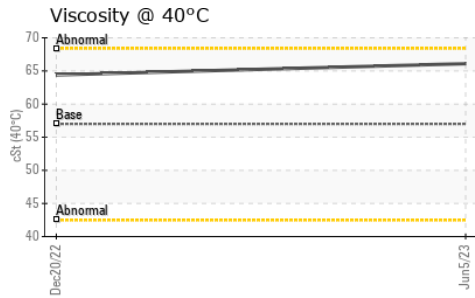
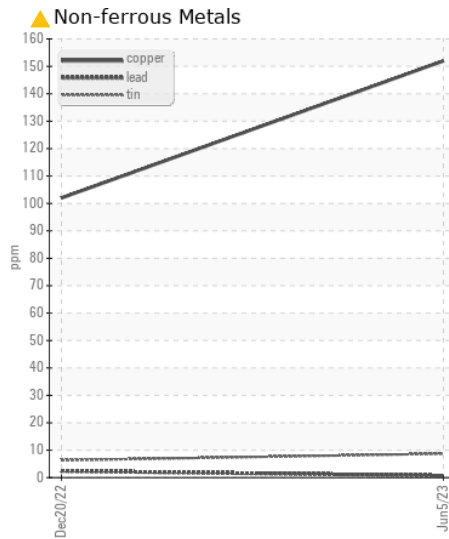
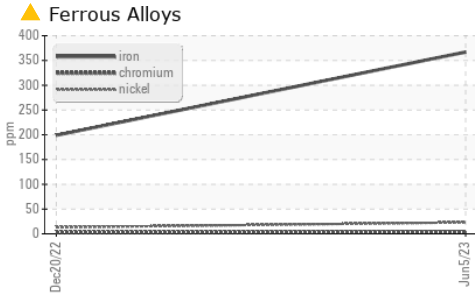
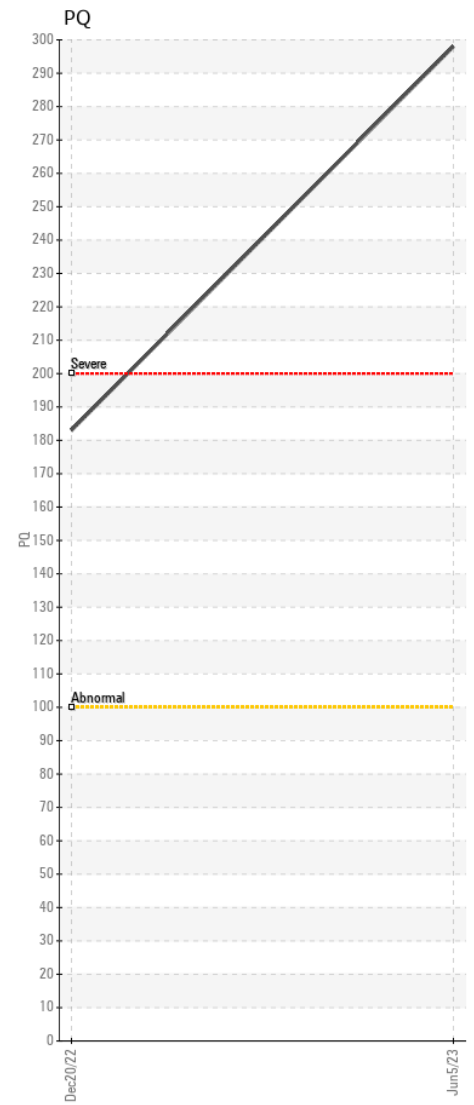
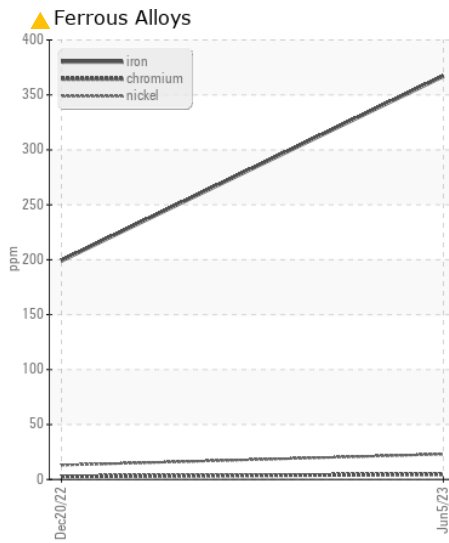
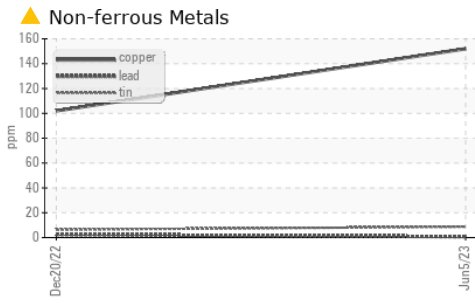
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>31	27	18	---
Potassium	ppm	ASTM D5185m	>20	1	0	---
Water		WC Method	>0.1	NEG	NEG	---
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	>0.1	NEG	NEG	---

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m	>51	23	21	---
Boron	ppm	ASTM D5185m	6	127	118	---
Barium	ppm	ASTM D5185m	0	0	0	---
Molybdenum	ppm	ASTM D5185m	0	<1	<1	---
Manganese	ppm	ASTM D5185m		80	54	---
Magnesium	ppm	ASTM D5185m	145	15	14	---
Calcium	ppm	ASTM D5185m	3570	3697	3500	---
Phosphorus	ppm	ASTM D5185m	1290	1330	1248	---
Zinc	ppm	ASTM D5185m	1640	1661	1451	---
Sulfur	ppm	ASTM D5185m		4469	3932	---
Visc @ 40°C	cSt	ASTM D445	57.0	66.1	64.4	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LEC0040435 **Received** : 08 Jun 2023
Lab Number : 05868147 **Tested** : 09 Jun 2023
Unique Number : 10507931 **Diagnosed** : 12 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)

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