



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
[RO#139507]
 Machine Id
JOHN DEERE 310E 1DW310EXANF714535
 Component
Front 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		LEC0037633	LEC0037500	---
Sample Date		Client Info		05 Jun 2023	18 Jan 2023	---
Machine Age	hrs	Client Info		1041	636	---
Oil Age	hrs	Client Info		405	636	---
Filter Age	hrs	Client Info		1041	0	---
Oil Changed		Client Info		Not Changd	Changed	---
Filter Changed		Client Info		Not Changd	Not Changd	---
Sample Status				NORMAL	ABNORMAL	---

WEAR

All component wear rates are normal.

PQ		ASTM D8184		64	165	---
Iron	ppm	ASTM D5185m	>1501	131	280	---
Chromium	ppm	ASTM D5185m	>11	2	4	---
Nickel	ppm	ASTM D5185m	>10	8	18	---
Titanium	ppm	ASTM D5185m		<1	<1	---
Silver	ppm	ASTM D5185m		0	0	---
Aluminum	ppm	ASTM D5185m	>21	2	4	---
Lead	ppm	ASTM D5185m	>51	0	3	---
Copper	ppm	ASTM D5185m	>101	69	▲ 151	---
Tin	ppm	ASTM D5185m	>10	5	8	---
Vanadium	ppm	ASTM D5185m		0	<1	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	MODER	---

CONTAMINATION

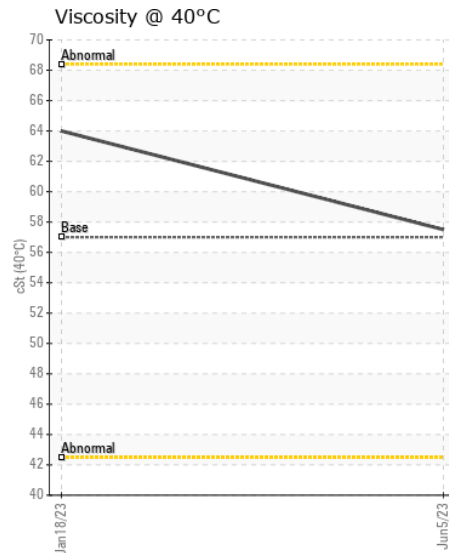
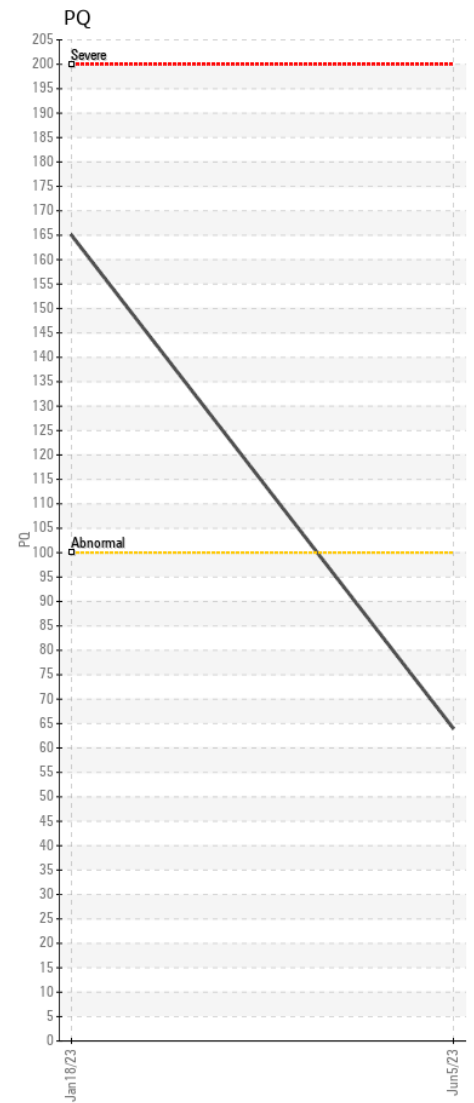
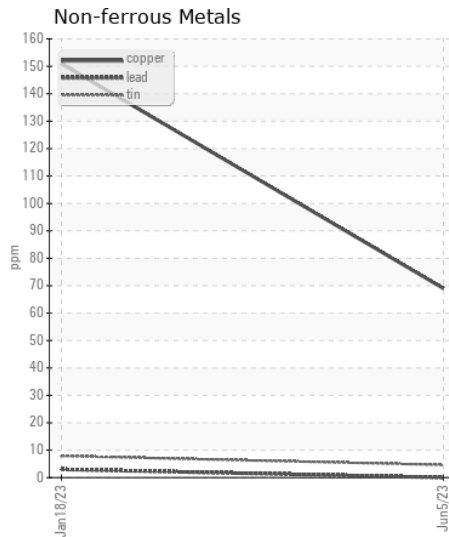
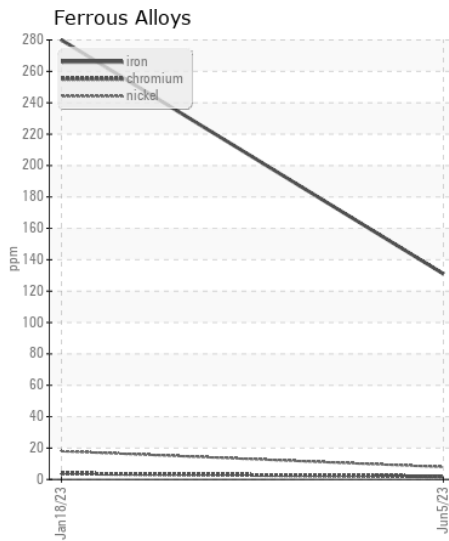
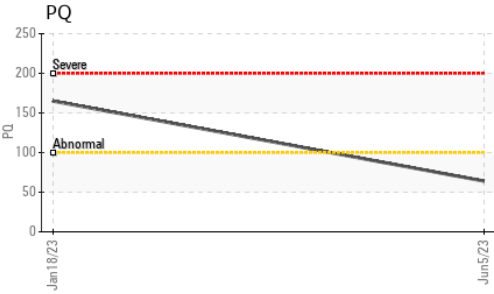
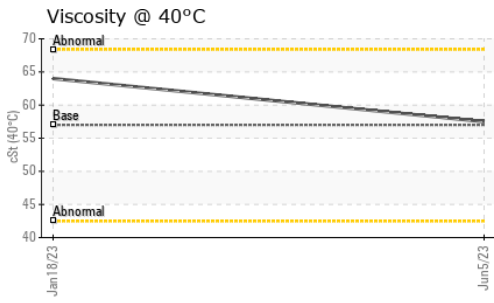
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>31	15	25	---
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	10	25	---
Boron	ppm	ASTM D5185m	6	45	116	---
Barium	ppm	ASTM D5185m	0	0	12	---
Molybdenum	ppm	ASTM D5185m	0	10	<1	---
Manganese	ppm	ASTM D5185m		55	103	---
Magnesium	ppm	ASTM D5185m	145	119	16	---
Calcium	ppm	ASTM D5185m	3570	3592	3507	---
Phosphorus	ppm	ASTM D5185m	1290	1140	1201	---
Zinc	ppm	ASTM D5185m	1640	1387	1439	---
Sulfur	ppm	ASTM D5185m		4428	3928	---
Visc @ 40°C	cSt	ASTM D445	57.0	57.5	64.0	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LEC0037633 **Received** : 07 Jun 2023
Lab Number : 05866973 **Diagnosed** : 08 Jun 2023
Unique Number : 10506757 **Diagnostician** : Sean Felton
Test Package : CONST (Additional Tests: PQ)

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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