



OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
[ro#146831]
 Machine Id
JOHN DEERE 310E 1DW310EXANF714535
 Component
Rear 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		LEC0046786	LEC0037636	LEC0036881
Sample Date		Client Info		12 Jan 2024	05 Jun 2023	18 Jan 2023
Machine Age	hrs	Client Info		1661	1041	636
Oil Age	hrs	Client Info		1025	405	636
Filter Age	hrs	Client Info		0	1041	0
Oil Changed		Client Info		Not Changd	Not Changd	Changed
Filter Changed		Client Info		N/A	Not Changd	Not Changd
Sample Status				ABNORMAL	NORMAL	ABNORMAL

WEAR

Bearing and/or bushing wear is indicated. All other component wear rates are normal.

PQ		ASTM D8184		217	76	155
Iron	ppm	ASTM D5185m	>1501	375	146	206
Chromium	ppm	ASTM D5185m	>11	3	2	3
Nickel	ppm	ASTM D5185m	>10	8	4	6
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>21	2	1	3
Lead	ppm	ASTM D5185m	>51	0	0	3
Copper	ppm	ASTM D5185m	>101	▲ 235	87	▲ 142
Tin	ppm	ASTM D5185m	>10	9	4	5
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

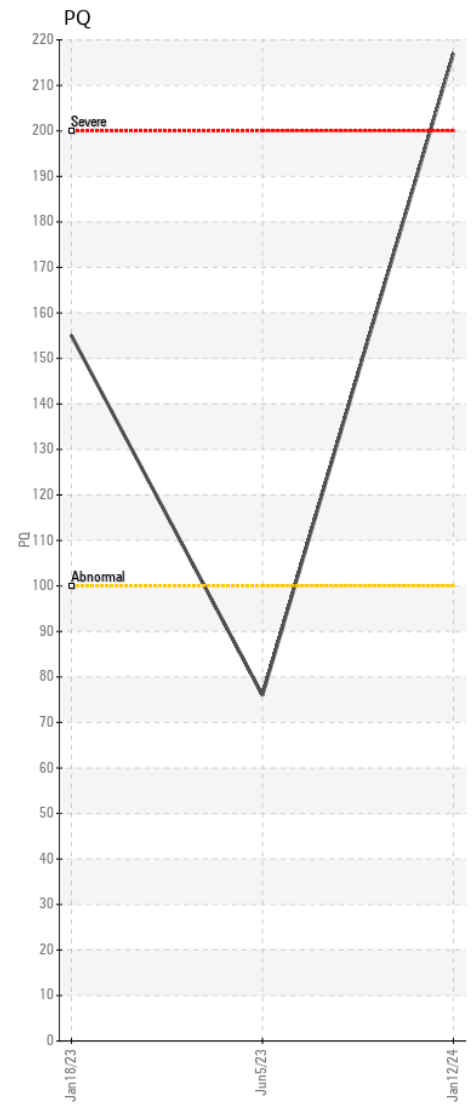
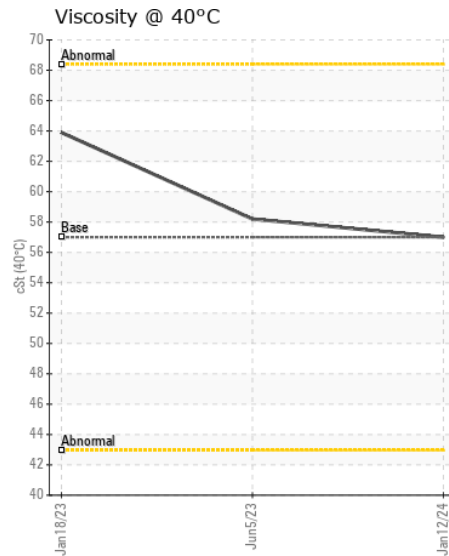
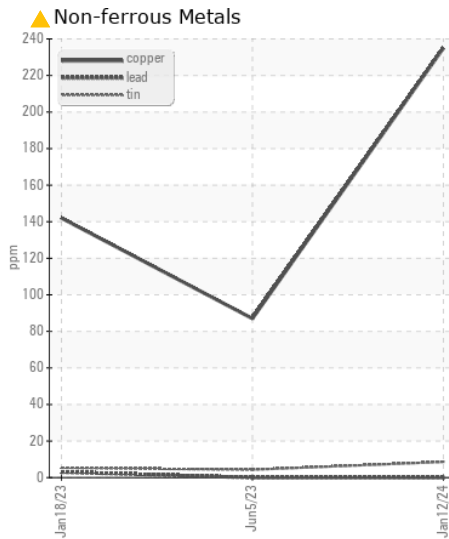
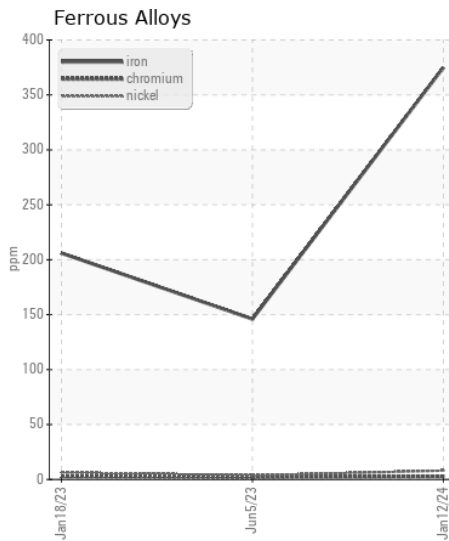
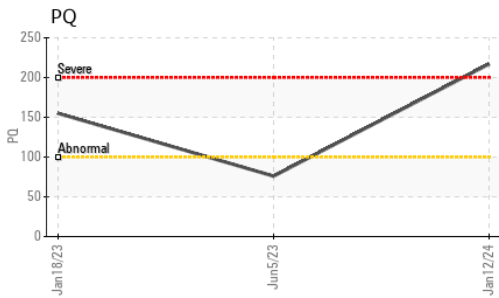
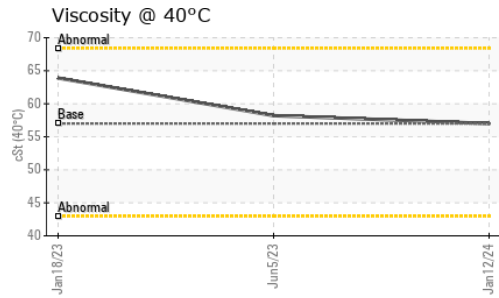
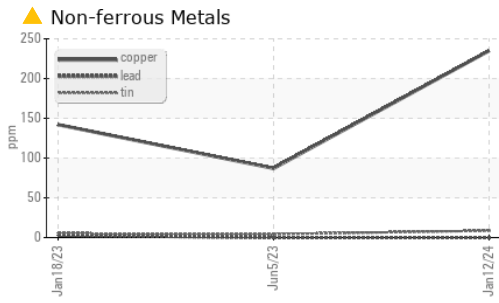
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>31	23	13	17
Potassium	ppm	ASTM D5185m	>20	4	2	3
Water		WC Method	>0.1	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
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	8	9	24
Boron	ppm	ASTM D5185m	6	52	43	115
Barium	ppm	ASTM D5185m	0	6	1	14
Molybdenum	ppm	ASTM D5185m	0	11	10	<1
Manganese	ppm	ASTM D5185m		7	4	6
Magnesium	ppm	ASTM D5185m	145	132	115	16
Calcium	ppm	ASTM D5185m	3570	3720	3533	3354
Phosphorus	ppm	ASTM D5185m	1290	1146	1073	1080
Zinc	ppm	ASTM D5185m	1640	1522	1371	1397
Sulfur	ppm	ASTM D5185m		4311	4296	3544
Visc @ 40°C	cSt	ASTM D445	57.0	57.0	58.2	63.9



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LEC0046786 **Received** : 18 Jan 2024
Lab Number : 06064573 **Diagnosed** : 21 Jan 2024
Unique Number : 10835955 **Diagnostician** : Don Baldrige
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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