



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
[ro#146831]
 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		LEC0046783	LEC0037633	LEC0037500
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				NORMAL	NORMAL	ABNORMAL

WEAR

All component wear rates are normal.

PQ		ASTM D8184		213	64	165
Iron	ppm	ASTM D5185m	>1501	260	131	280
Chromium	ppm	ASTM D5185m	>11	2	2	4
Nickel	ppm	ASTM D5185m	>10	11	8	18
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>21	2	2	4
Lead	ppm	ASTM D5185m	>51	0	0	3
Copper	ppm	ASTM D5185m	>101	150	69	▲ 151
Tin	ppm	ASTM D5185m	>10	6	5	8
Vanadium	ppm	ASTM D5185m		0	0	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	MODER

CONTAMINATION

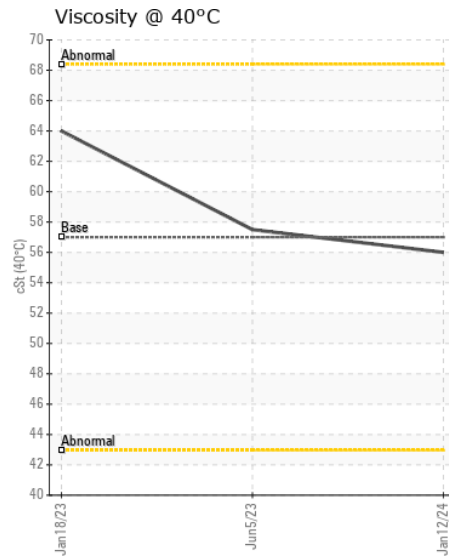
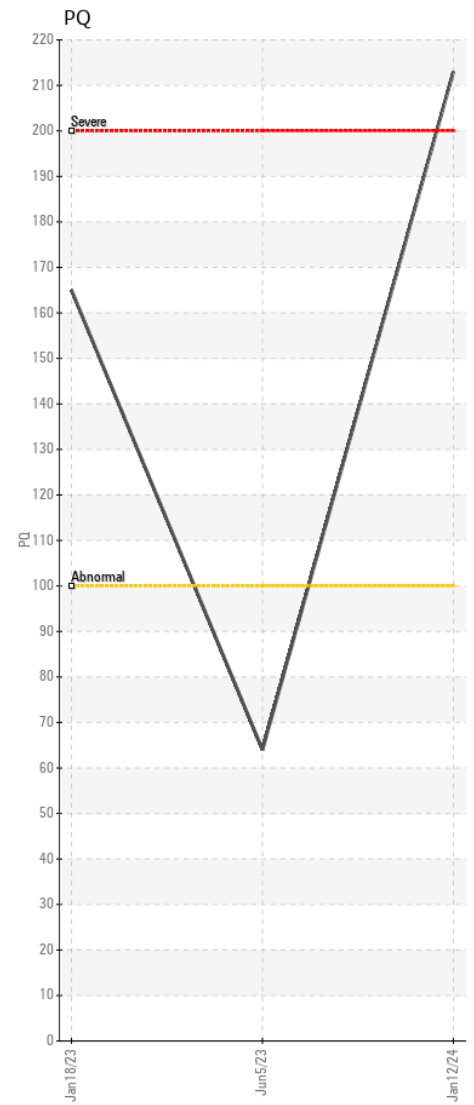
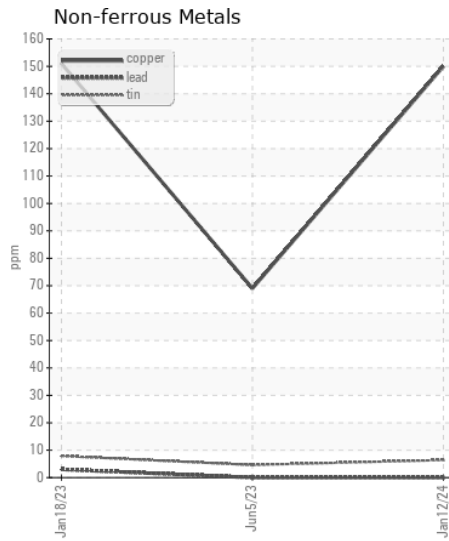
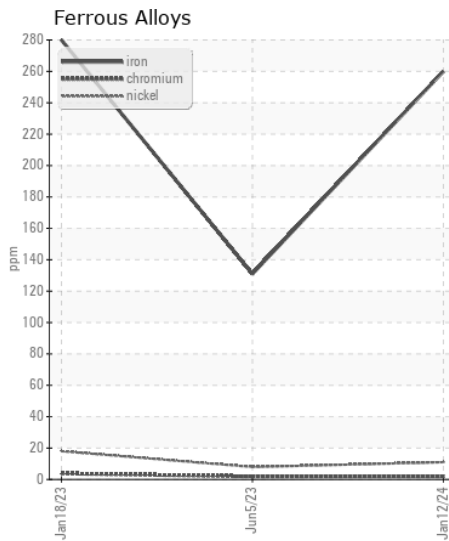
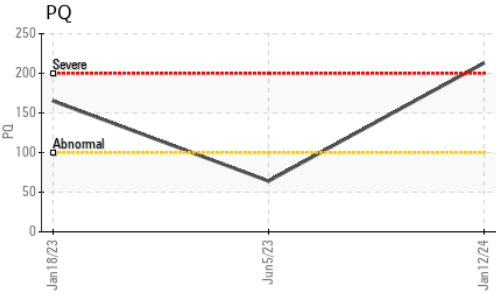
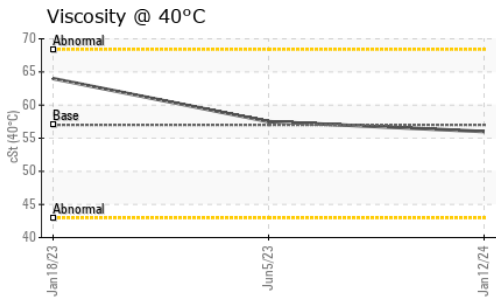
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>31	19	15	25
Potassium	ppm	ASTM D5185m	>20	2	<1	0
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	7	10	25
Boron	ppm	ASTM D5185m	6	47	45	116
Barium	ppm	ASTM D5185m	0	4	0	12
Molybdenum	ppm	ASTM D5185m	0	10	10	<1
Manganese	ppm	ASTM D5185m		65	55	103
Magnesium	ppm	ASTM D5185m	145	113	119	16
Calcium	ppm	ASTM D5185m	3570	3415	3592	3507
Phosphorus	ppm	ASTM D5185m	1290	1091	1140	1201
Zinc	ppm	ASTM D5185m	1640	1334	1387	1439
Sulfur	ppm	ASTM D5185m		3928	4428	3928
Visc @ 40°C	cSt	ASTM D445	57.0	56.0	57.5	64.0



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LEC0046783 **Received** : 18 Jan 2024
Lab Number : 06064575 **Diagnosed** : 21 Jan 2024
Unique Number : 10835957 **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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