



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
JOHN DEERE 310E 1DW310EXPMF710038
Component
Center Differential
Fluid
JOHN DEERE HY-GARD HYD/TRANS (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0198157	JR0171033	JR05678137
Sample Date		Client Info		08 Feb 2024	19 Jul 2023	26 Oct 2022
Machine Age	hrs	Client Info		3778	3086	2442
Oil Age	hrs	Client Info		2967	2919	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changed	Not Changed	Not Changed
Filter Changed		Client Info		Not Changed	N/A	N/A
Sample Status				NORMAL	ABNORMAL	NORMAL

WEAR

All component wear rates are normal.

PQ	UOM	Method	Limit/Abn	Current	History1	History2
PQ		ASTM D8184		16	133	87
Iron	ppm	ASTM D5185m	>500	2	267	155
Chromium	ppm	ASTM D5185m	>10	0	1	1
Nickel	ppm	ASTM D5185m	>10	0	5	3
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	2	4	3
Lead	ppm	ASTM D5185m	>25	0	<1	<1
Copper	ppm	ASTM D5185m	>100	<1	▲ 165	87
Tin	ppm	ASTM D5185m	>10	0	▲ 6	4
Vanadium	ppm	ASTM D5185m		0	<1	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	LIGHT
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

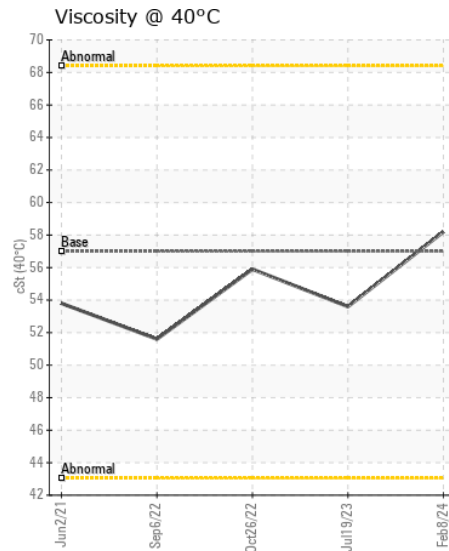
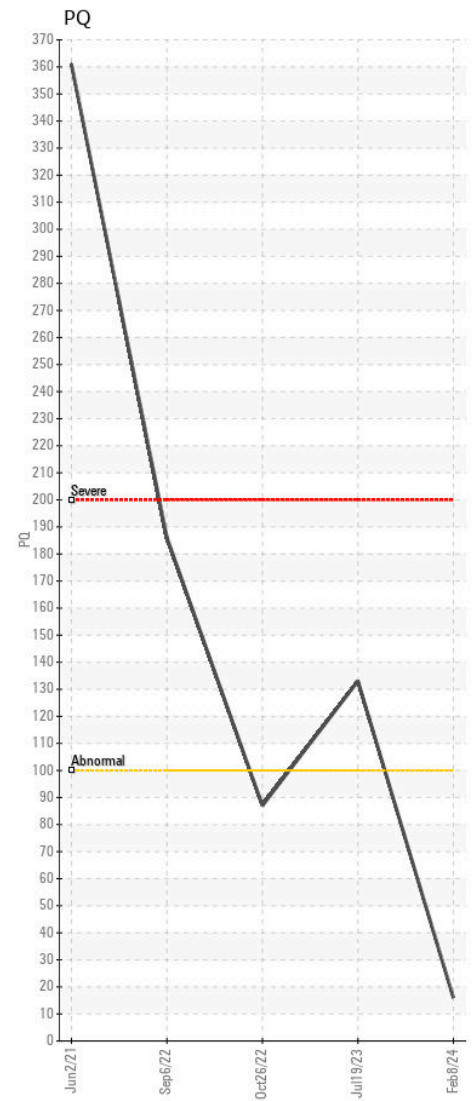
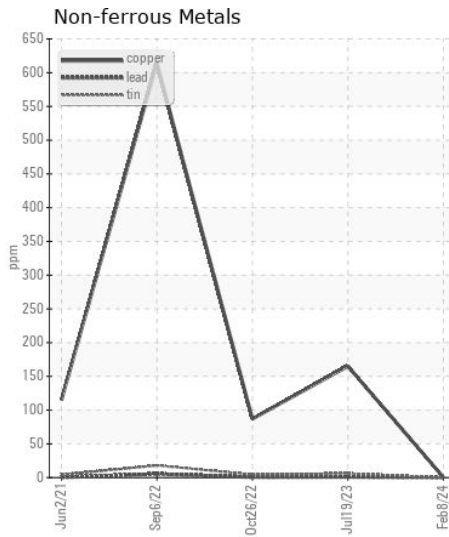
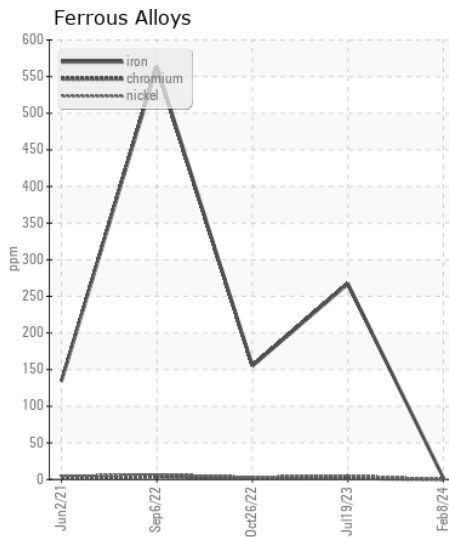
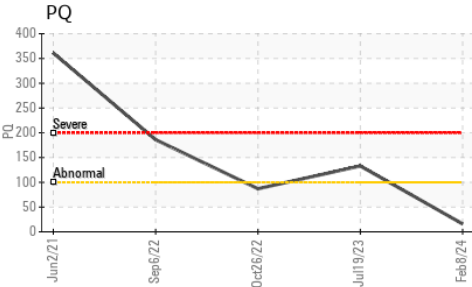
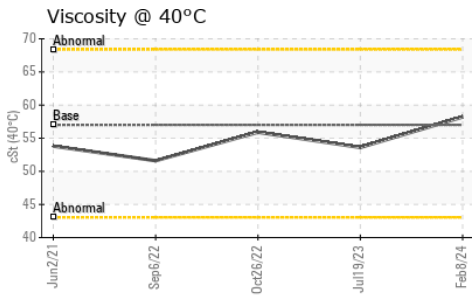
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>75	5	14	11
Potassium	ppm	ASTM D5185m	>20	1	0	0
Water		WC Method	>.2	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	LIGHT	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	>.2	NEG	NEG	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		0	6	1
Boron	ppm	ASTM D5185m	6	0	11	3
Barium	ppm	ASTM D5185m	0	12	0	0
Molybdenum	ppm	ASTM D5185m	0	<1	<1	<1
Manganese	ppm	ASTM D5185m		0	13	10
Magnesium	ppm	ASTM D5185m	145	95	100	96
Calcium	ppm	ASTM D5185m	3570	3320	3577	3667
Phosphorus	ppm	ASTM D5185m	1290	1085	1057	999
Zinc	ppm	ASTM D5185m	1640	1176	1272	1327
Sulfur	ppm	ASTM D5185m		4734	4147	3878
Visc @ 40°C	cSt	ASTM D445	57.0	58.2	53.6	55.9



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0198157 **Received** : 14 Feb 2024
Lab Number : 06089075 **Tested** : 15 Feb 2024
Unique Number : 10876520 **Diagnosed** : 15 Feb 2024 - Wes Davis
Test Package : CONST (Additional Tests: PQ)

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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)