



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
JOHN DEERE 310E 1DW310EXHMF708946
Component
Rear Differential
Fluid
TDH FLUID SAE 75W80 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor. (Customer Sample Comment: Rear Differential)

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0205778	JR0178115	JR0162352
Sample Date		Client Info		15 Jun 2024	07 Sep 2023	02 Jun 2023
Machine Age	hrs	Client Info		4517	3605	5057
Oil Age	hrs	Client Info		4517	2032	2590
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	Changed
Sample Status				NORMAL	SEVERE	NORMAL

WEAR

All component wear rates are normal.

PQ	UOM	Method	Limit/Abn	Current	History1	History2
PQ		ASTM D8184		121	189	17
Iron	ppm	ASTM D5185m	>500	457	730	2
Chromium	ppm	ASTM D5185m	>10	1	2	0
Nickel	ppm	ASTM D5185m	>10	2	3	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	2	<1	1
Lead	ppm	ASTM D5185m	>25	0	5	0
Copper	ppm	ASTM D5185m	>100	217	▲ 448	<1
Tin	ppm	ASTM D5185m	>10	5	▲ 10	0
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

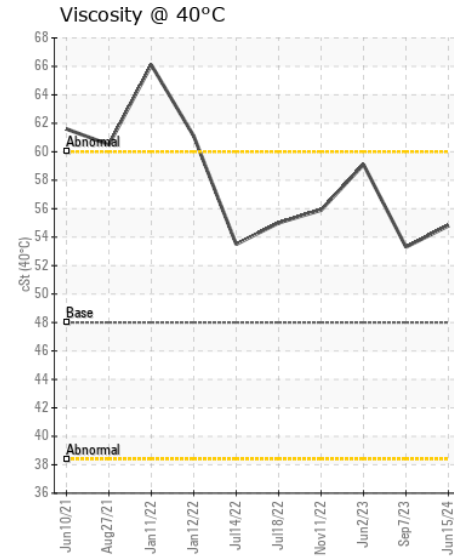
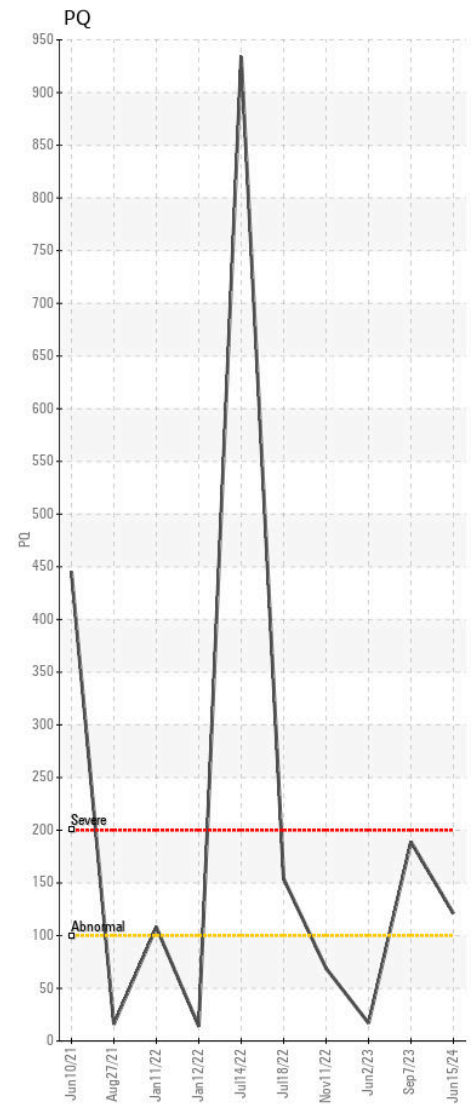
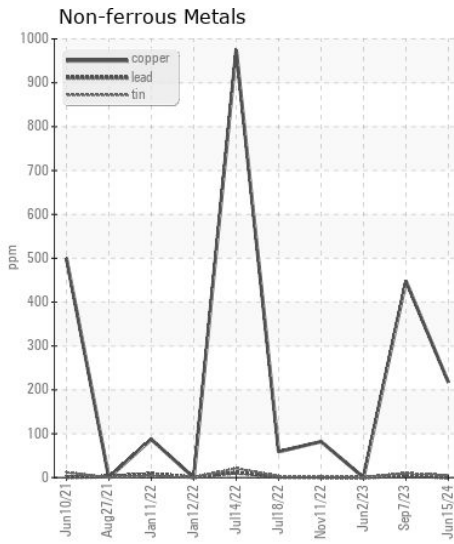
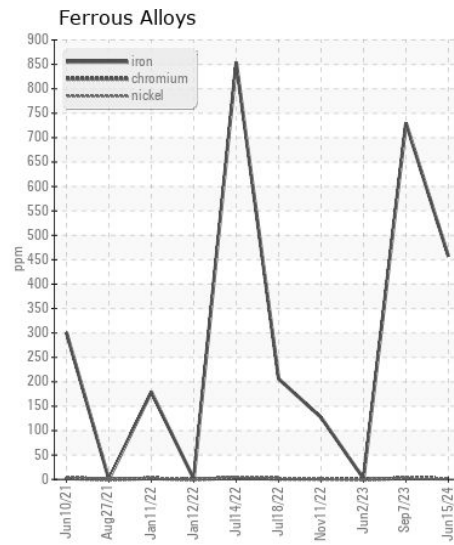
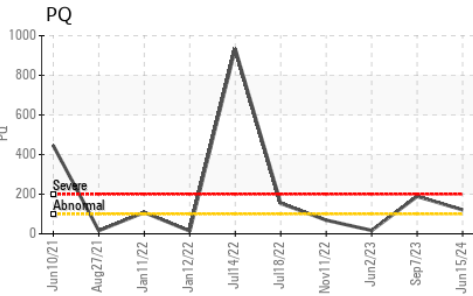
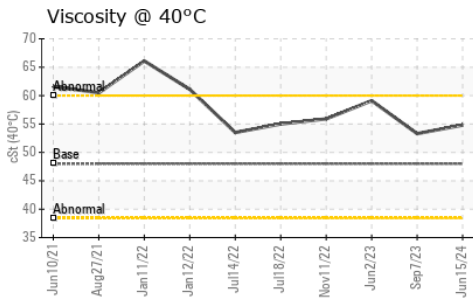
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>75	12	17	6
Potassium	ppm	ASTM D5185m	>20	2	2	0
Water		WC Method	>.2	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	>.2	NEG	NEG	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		0	3	<1
Boron	ppm	ASTM D5185m	10	7	8	1
Barium	ppm	ASTM D5185m	10	1	0	0
Molybdenum	ppm	ASTM D5185m	10	2	2	<1
Manganese	ppm	ASTM D5185m		4	9	0
Magnesium	ppm	ASTM D5185m	100	91	96	96
Calcium	ppm	ASTM D5185m	3500	3256	3525	3450
Phosphorus	ppm	ASTM D5185m	1150	1011	1025	954
Zinc	ppm	ASTM D5185m	1150	1222	1245	1190
Sulfur	ppm	ASTM D5185m	5000	4174	4096	4147
Visc @ 40°C	cSt	ASTM D445	48	54.8	53.3	59.1



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0205778 **Received** : 18 Jun 2024
Lab Number : 06213752 **Tested** : 20 Jun 2024
Unique Number : 11086616 **Diagnosed** : 20 Jun 2024 - Sean Felton
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)