



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
[46991]
 Machine Id
JOHN DEERE 310E 1DW310EXJNF714255
 Component
Transmission (Auto)
 Fluid
JOHN DEERE HD SynTran (64 QTS)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0217648	JR0203322	JR0187856
Sample Date		Client Info		22 May 2024	01 Feb 2024	18 Sep 2023
Machine Age	hrs	Client Info		2439	1939	1440
Oil Age	hrs	Client Info		500	1939	0
Filter Age	hrs	Client Info		0	1939	0
Oil Changed		Client Info		Not Changed	Changed	Not Changed
Filter Changed		Client Info		Not Changed	Changed	Not Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

PQ		ASTM D8184	>50	22	20	25
Iron	ppm	ASTM D5185m	>160	24	34	29
Chromium	ppm	ASTM D5185m	>5	<1	0	0
Nickel	ppm	ASTM D5185m	>5	0	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>5	<1	0	0
Aluminum	ppm	ASTM D5185m	>50	<1	<1	0
Lead	ppm	ASTM D5185m	>50	2	4	4
Copper	ppm	ASTM D5185m	>225	2	2	2
Tin	ppm	ASTM D5185m	>10	0	0	0
Vanadium	ppm	ASTM D5185m		<1	<1	<1
White Metal	scalar	*Visual	NONE	NONE	LIGHT	LIGHT
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

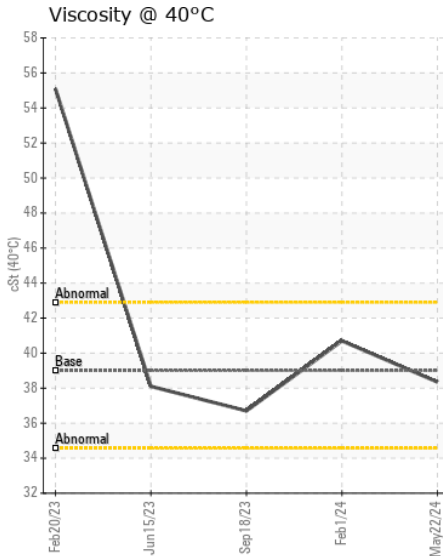
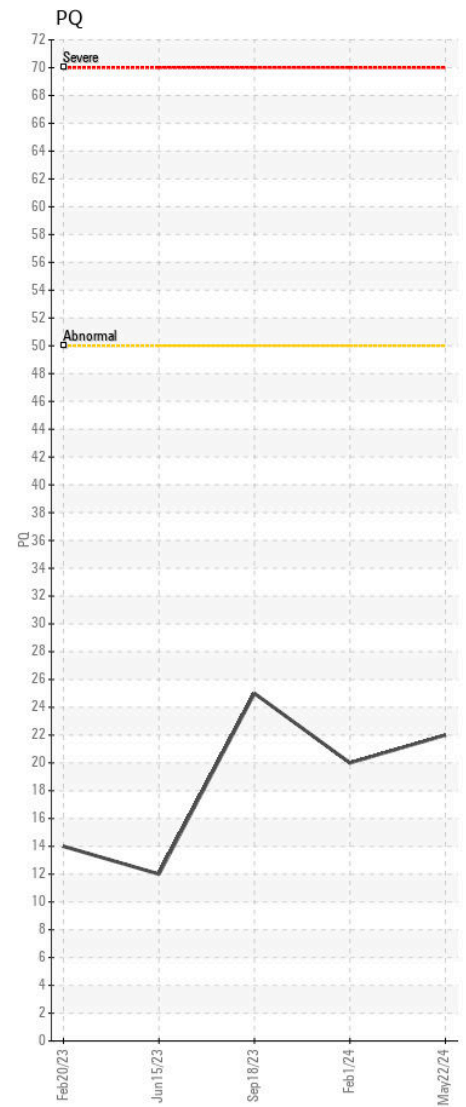
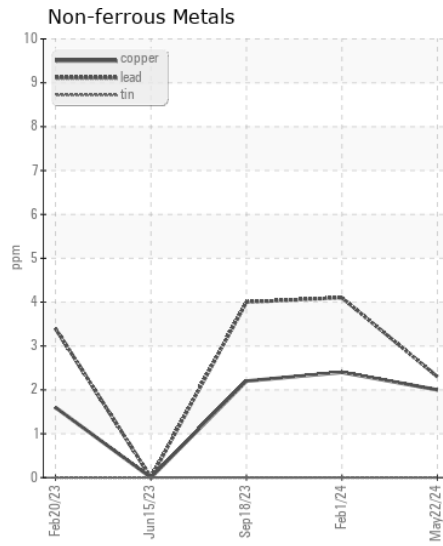
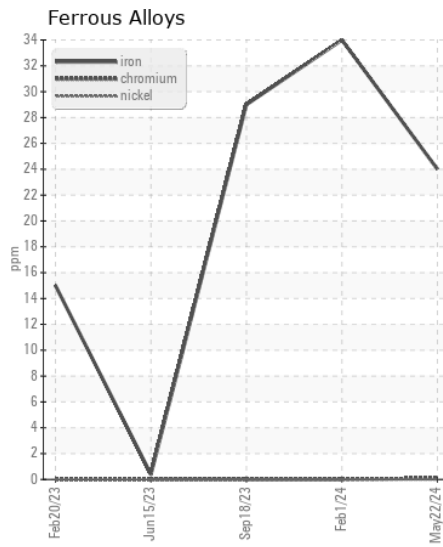
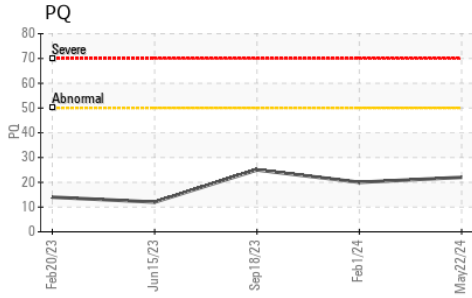
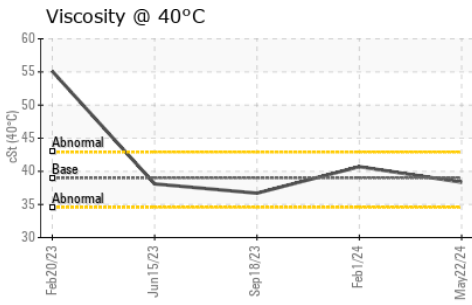
There is no indication of any contamination in the fluid.

Silicon	ppm	ASTM D5185m	>20	3	4	4
Potassium	ppm	ASTM D5185m	>20	4	6	8
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 fluid is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		2	3	3
Boron	ppm	ASTM D5185m	168	114	101	90
Barium	ppm	ASTM D5185m		0	2	0
Molybdenum	ppm	ASTM D5185m		5	2	2
Manganese	ppm	ASTM D5185m		<1	<1	1
Magnesium	ppm	ASTM D5185m		8	6	2
Calcium	ppm	ASTM D5185m	33	165	148	148
Phosphorus	ppm	ASTM D5185m	330	287	278	265
Zinc	ppm	ASTM D5185m	0	51	58	43
Sulfur	ppm	ASTM D5185m	980	465	466	565
Visc @ 40°C	cSt	ASTM D445	39	38.35	40.7	36.7



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0217648 **Received** : 23 May 2024
Lab Number : 06189784 **Tested** : 30 May 2024
Unique Number : 11046536 **Diagnosed** : 31 May 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)