



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
[46029]
 Machine Id
JOHN DEERE 310E 1DW310EXHNF715994
 Component
Transmission (Auto)
 Fluid
JOHN DEERE HD SynTran (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0211187	JR0196184	JR0184171
Sample Date		Client Info		16 Apr 2024	15 Dec 2023	31 Aug 2023
Machine Age	hrs	Client Info		2479	1952	1442
Oil Age	hrs	Client Info		527	1952	1442
Filter Age	hrs	Client Info		0	1952	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	24	23	18
Iron	ppm	ASTM D5185m	>160	24	36	27
Chromium	ppm	ASTM D5185m	>5	0	<1	0
Nickel	ppm	ASTM D5185m	>5	0	<1	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>5	0	0	0
Aluminum	ppm	ASTM D5185m	>50	<1	1	<1
Lead	ppm	ASTM D5185m	>50	<1	1	<1
Copper	ppm	ASTM D5185m	>225	2	2	2
Tin	ppm	ASTM D5185m	>10	<1	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

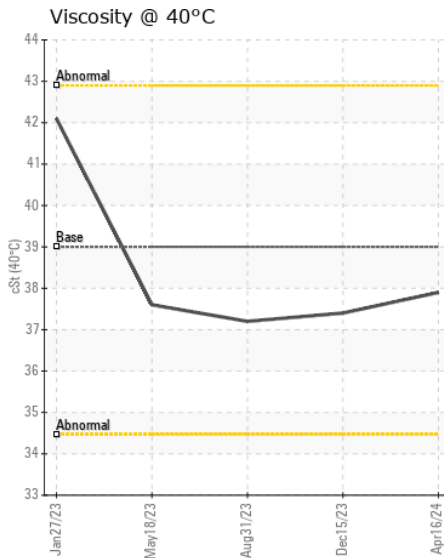
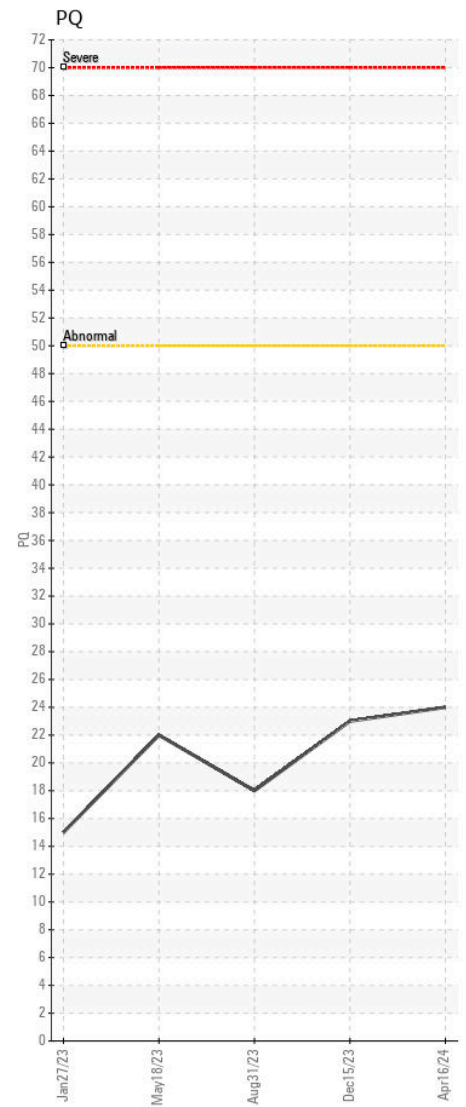
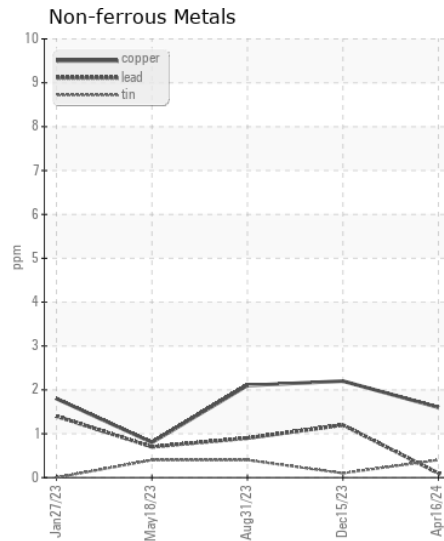
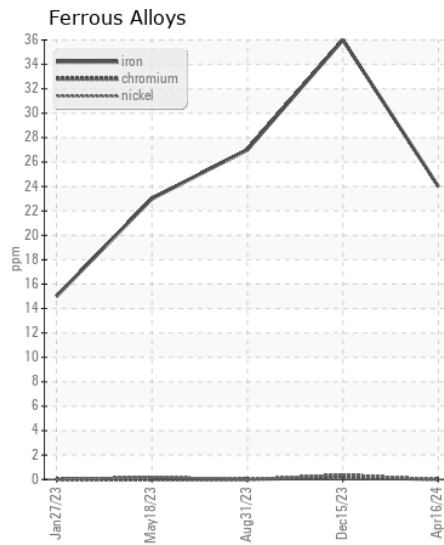
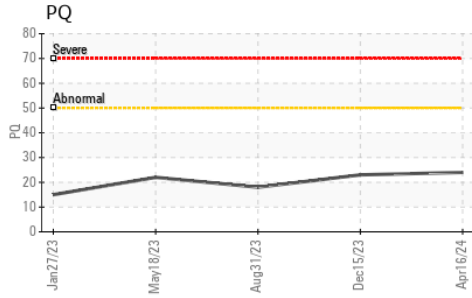
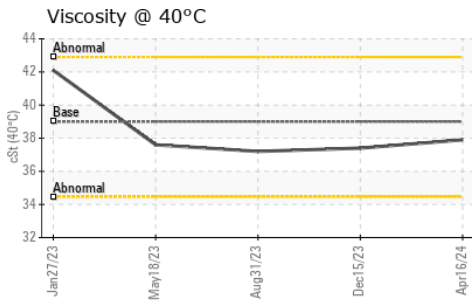
There is no indication of any contamination in the fluid.

Silicon	ppm	ASTM D5185m	>20	3	4	4
Potassium	ppm	ASTM D5185m	>20	4	2	2
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		3	2	2
Boron	ppm	ASTM D5185m	168	132	121	119
Barium	ppm	ASTM D5185m		0	4	0
Molybdenum	ppm	ASTM D5185m		0	<1	0
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		1	2	0
Calcium	ppm	ASTM D5185m	33	69	122	101
Phosphorus	ppm	ASTM D5185m	330	290	269	267
Zinc	ppm	ASTM D5185m	0	13	25	15
Sulfur	ppm	ASTM D5185m	980	427	446	535
Visc @ 40°C	cSt	ASTM D445	39	37.9	37.4	37.2



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0211187 **Received** : 17 Apr 2024
Lab Number : 06152210 **Tested** : 18 Apr 2024
Unique Number : 10982288 **Diagnosed** : 18 Apr 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)