



Machine Id
JOHN DEERE 310E 1DW310EXCMF712451
Component
Transmission (Auto)
Fluid
JOHN DEERE HD SynTran (--- GAL)

RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0219647	JR0181059	JR0106576
Sample Date		Client Info		08 Jul 2024	21 Nov 2023	08 Mar 2022
Machine Age	hrs	Client Info		2490	1969	463
Oil Age	hrs	Client Info		521	0	463
Filter Age	hrs	Client Info		0	0	463
Oil Changed		Client Info		Not Changed	Changed	Not Changed
Filter Changed		Client Info		Not Changed	Changed	Not Changed
Sample Status				ATTENTION	NORMAL	NORMAL

WEAR

An increase in the lead level is noted. All other component wear rates are normal.

PQ		ASTM D8184	>50	20	31	27
Iron	ppm	ASTM D5185m	>160	36	63	24
Chromium	ppm	ASTM D5185m	>5	0	0	0
Nickel	ppm	ASTM D5185m	>5	0	0	<1
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	32	3	4
Copper	ppm	ASTM D5185m	>225	1	2	1
Tin	ppm	ASTM D5185m	>10	0	0	<1
Vanadium	ppm	ASTM D5185m		0	<1	0
White Metal	scalar	*Visual	NONE	LIGHT	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

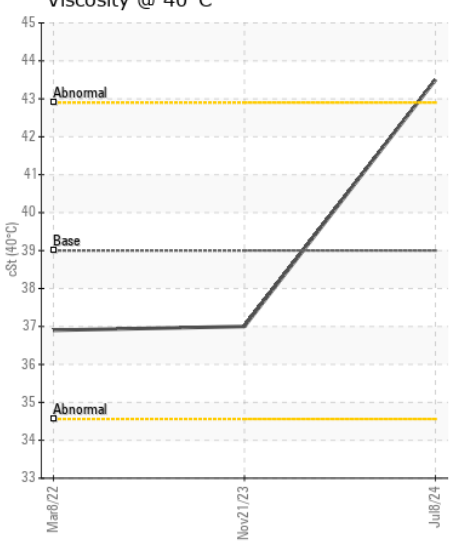
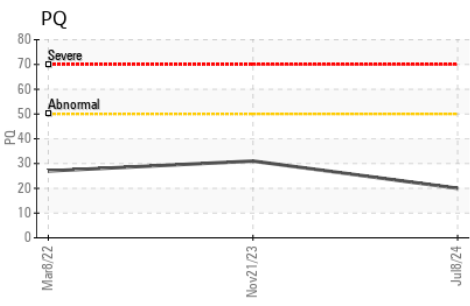
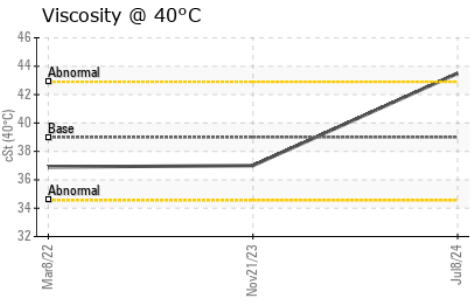
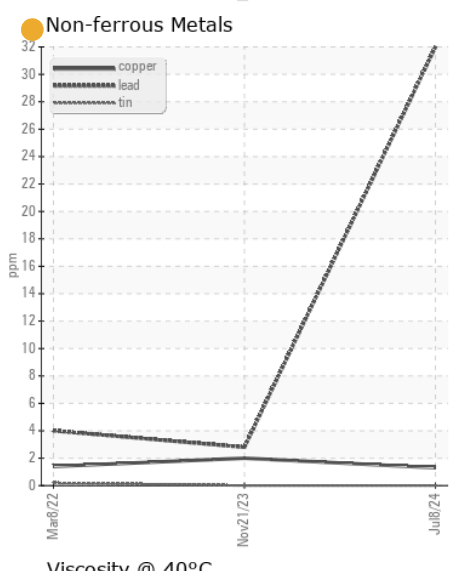
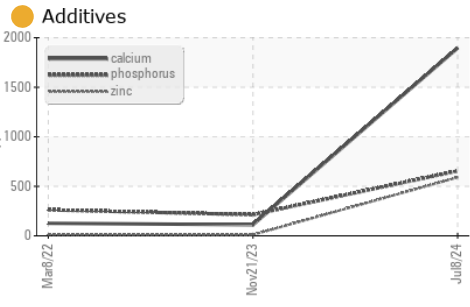
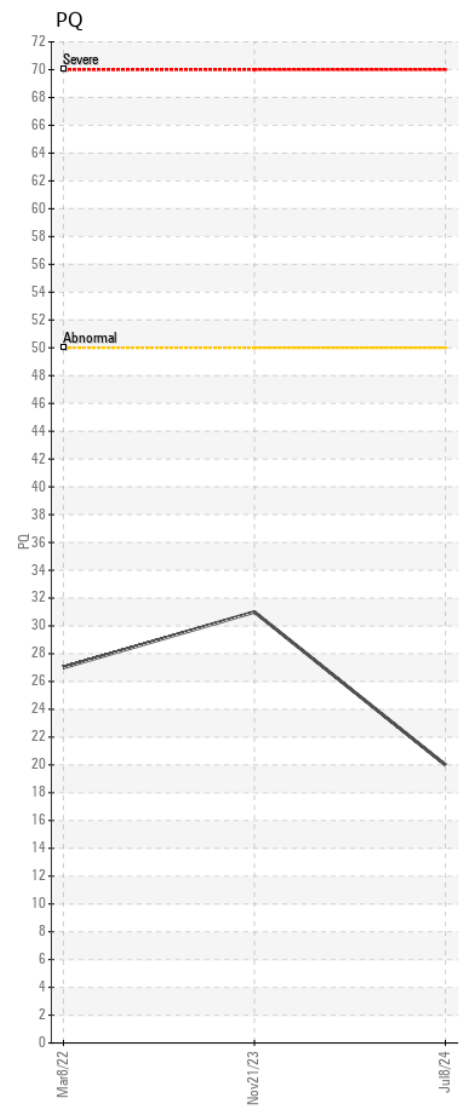
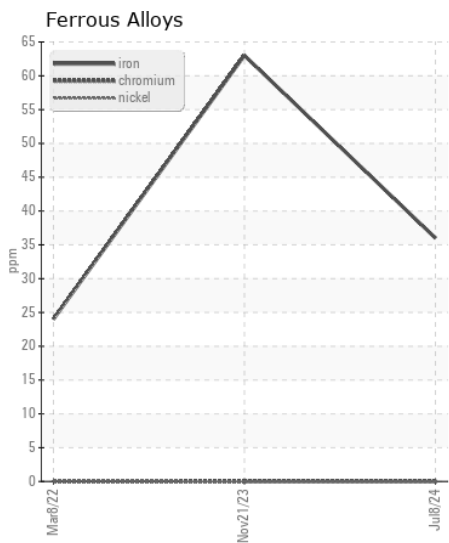
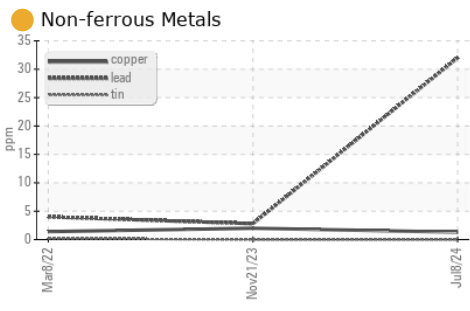
There is no indication of any contamination in the fluid.

Silicon	ppm	ASTM D5185m	>20	2	4	3
Potassium	ppm	ASTM D5185m	>20	<1	2	<1
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

Additive levels indicate the addition of a different brand, or type of fluid. Confirm oil type.

Sodium	ppm	ASTM D5185m		3	3	2
Boron	ppm	ASTM D5185m	168	63	98	111
Barium	ppm	ASTM D5185m		<1	0	0
Molybdenum	ppm	ASTM D5185m		2	0	0
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		56	0	<1
Calcium	ppm	ASTM D5185m	33	1896	112	127
Phosphorus	ppm	ASTM D5185m	330	655	213	262
Zinc	ppm	ASTM D5185m	0	590	10	13
Sulfur	ppm	ASTM D5185m	980	2147	310	395
Visc @ 40°C	cSt	ASTM D445	39	43.5	37.0	36.9



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0219647 **Received** : 10 Jul 2024
Lab Number : 06232415 **Tested** : 11 Jul 2024
Unique Number : 11115908 **Diagnosed** : 11 Jul 2024 - Sean Felton
Test Package : CONST (Additional Tests: PQ)

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Certificate L2367
 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)