



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
[05W47824]
 Machine Id
JOHN DEERE 310E 1DW310EXHNF715994
 Component
Transmission (Auto)
 Fluid
JOHN DEERE HD SynTran (16 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0225388	JR0211187	JR0196184
Sample Date		Client Info		26 Jun 2024	16 Apr 2024	15 Dec 2023
Machine Age	hrs	Client Info		2936	2479	1952
Oil Age	hrs	Client Info		984	527	1952
Filter Age	hrs	Client Info		984	0	1952
Oil Changed		Client Info		Not Changd	Not Changd	Changed
Filter Changed		Client Info		Not Changd	Not Changd	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

PQ		ASTM D8184	>50	22	24	23
Iron	ppm	ASTM D5185m	>160	28	24	36
Chromium	ppm	ASTM D5185m	>5	<1	0	<1
Nickel	ppm	ASTM D5185m	>5	0	0	<1
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>5	0	0	0
Aluminum	ppm	ASTM D5185m	>50	3	<1	1
Lead	ppm	ASTM D5185m	>50	<1	<1	1
Copper	ppm	ASTM D5185m	>225	2	2	2
Tin	ppm	ASTM D5185m	>10	0	<1	<1
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 fluid.

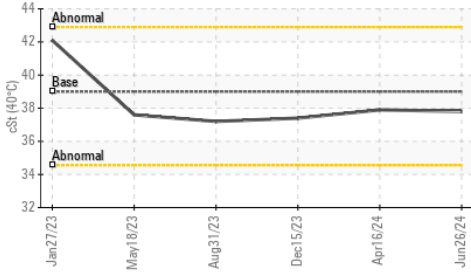
Silicon	ppm	ASTM D5185m	>20	3	3	4
Potassium	ppm	ASTM D5185m	>20	2	4	2
Water		WC Method	>0.1	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	NEG

FLUID CONDITION

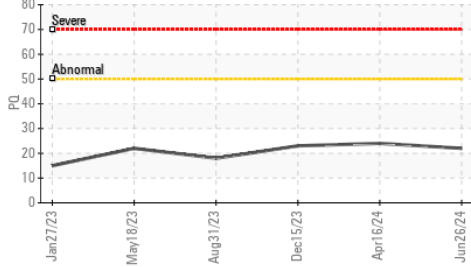
The condition of the fluid is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		1	3	2
Boron	ppm	ASTM D5185m	168	121	132	121
Barium	ppm	ASTM D5185m		<1	0	4
Molybdenum	ppm	ASTM D5185m		0	0	<1
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		1	1	2
Calcium	ppm	ASTM D5185m	33	65	69	122
Phosphorus	ppm	ASTM D5185m	330	296	290	269
Zinc	ppm	ASTM D5185m	0	37	13	25
Sulfur	ppm	ASTM D5185m	980	379	427	446
Visc @ 40°C	cSt	ASTM D445	39	37.8	37.9	37.4

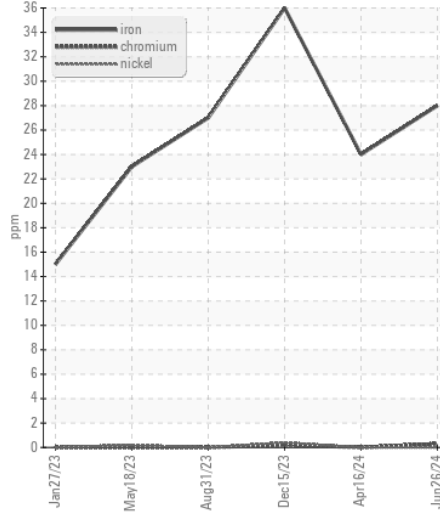
Viscosity @ 40°C



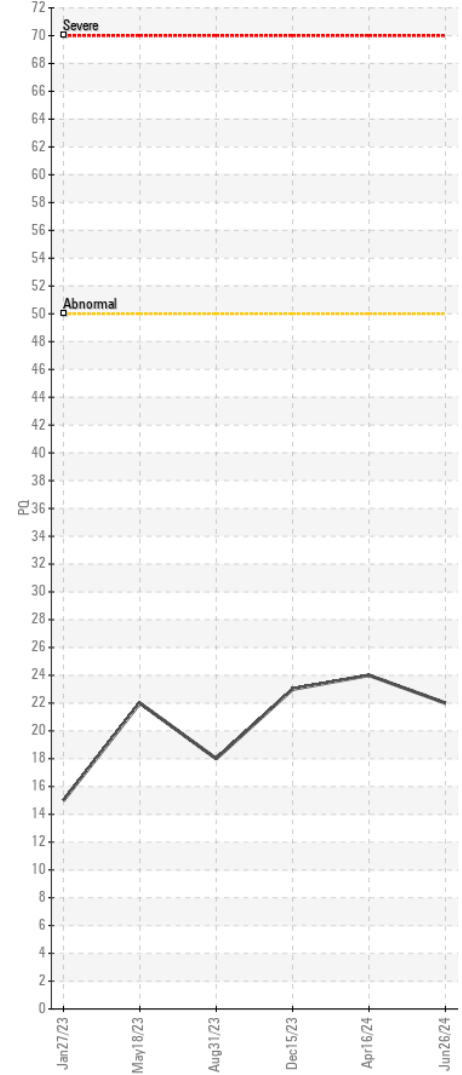
PQ



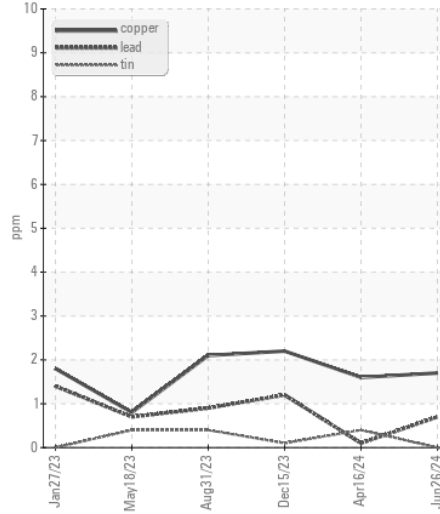
Ferrous Alloys



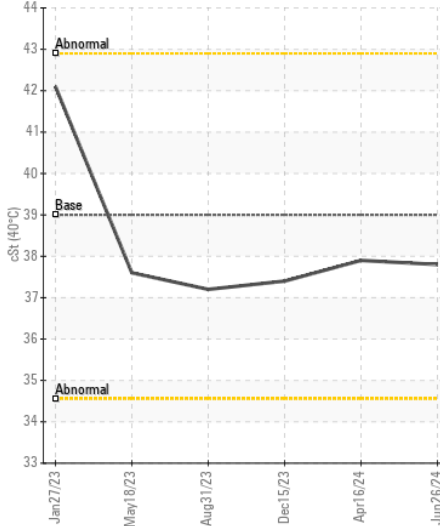
PQ



Non-ferrous Metals



Viscosity @ 40°C



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
 Sample No. : JR0225388 Received : 27 Jun 2024
 Lab Number : 06222510 Tested : 01 Jul 2024
 Unique Number : 11100707 Diagnosed : 01 Jul 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)