



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
[W45163]
 Machine Id
JOHN DEERE 310SJ 1T0310SJEBD212076
 Component
Transmission (Manual)
 Fluid
JOHN DEERE HY-GARD HYD/TRANS (--- QTS)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0208175	JRMC405761	---
Sample Date		Client Info		29 Feb 2024	13 Jun 2016	---
Machine Age	hrs	Client Info		1797	962	---
Oil Age	hrs	Client Info		0	962	---
Filter Age	hrs	Client Info		0	962	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				NORMAL	NORMAL	---

WEAR

All component wear rates are normal.

PQ		ASTM D8184	>95	13	21.0	---
Iron	ppm	ASTM D5185m	>200	25	33	---
Chromium	ppm	ASTM D5185m	>5	<1	<1	---
Nickel	ppm	ASTM D5185m	>5	0	<1	---
Titanium	ppm	ASTM D5185m		<1	0	---
Silver	ppm	ASTM D5185m	>7	0	0	---
Aluminum	ppm	ASTM D5185m	>25	6	6	---
Lead	ppm	ASTM D5185m	>45	<1	2	---
Copper	ppm	ASTM D5185m	>225	51	60	---
Tin	ppm	ASTM D5185m	>10	<1	0	---
Vanadium	ppm	ASTM D5185m		0	0	---
White Metal	scalar	*Visual	NONE	NONE	LIGHT	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

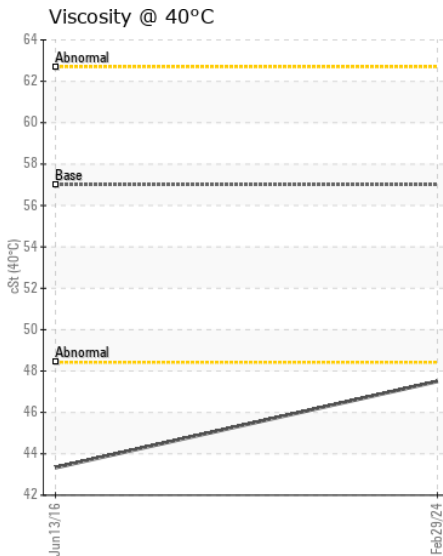
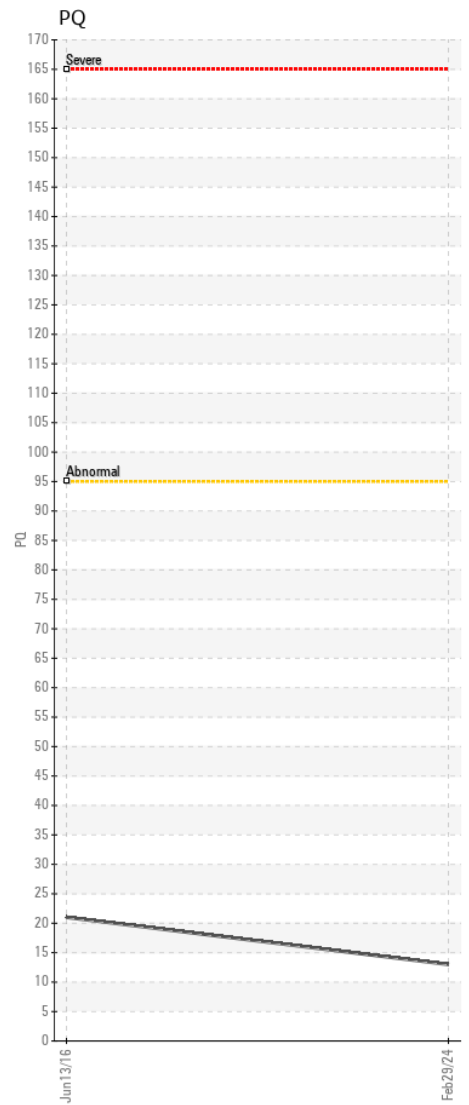
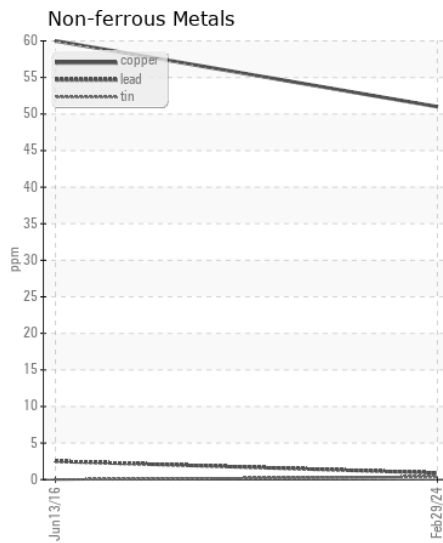
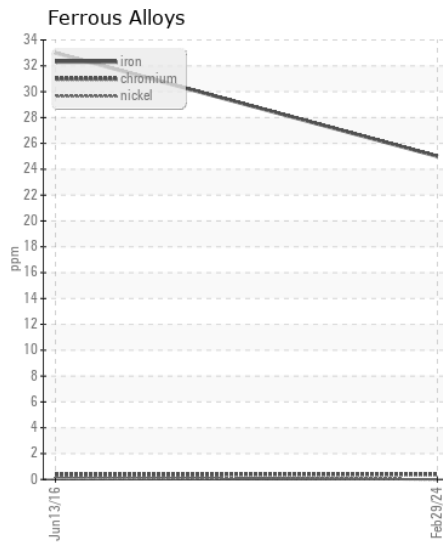
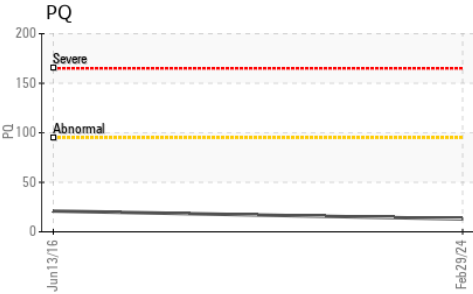
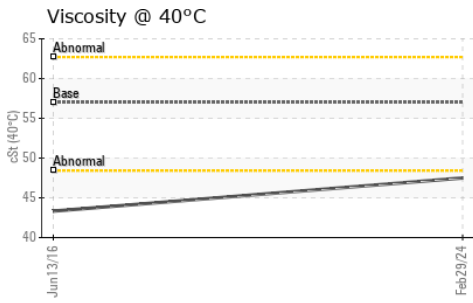
There is no indication of any contamination in the fluid.

Silicon	ppm	ASTM D5185m	>125	5	5	---
Potassium	ppm	ASTM D5185m	>20	3	3	---
Water		WC Method	>0.1	NEG	NEG	---
Silt	scalar	*Visual	NONE	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	---

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		2	5	---
Boron	ppm	ASTM D5185m	6	7	20	---
Barium	ppm	ASTM D5185m	0	0	3	---
Molybdenum	ppm	ASTM D5185m	0	0	<1	---
Manganese	ppm	ASTM D5185m		<1	2	---
Magnesium	ppm	ASTM D5185m	145	97	92	---
Calcium	ppm	ASTM D5185m	3570	3433	3543	---
Phosphorus	ppm	ASTM D5185m	1290	1161	1058	---
Zinc	ppm	ASTM D5185m	1640	1329	1292	---
Sulfur	ppm	ASTM D5185m		4170	3552	---
Visc @ 40°C	cSt	ASTM D445	57.0	47.5	43.33	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0208175 **Received** : 01 Mar 2024
Lab Number : 06106319 **Tested** : 04 Mar 2024
Unique Number : 10909816 **Diagnosed** : 05 Mar 2024 - Sean Felton
Test Package : CONST (Additional Tests: PQ)

JRE - MANASSAS PARK
 9107 OWENS DRIVE
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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)