



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
JOHN DEERE 310SJ 44 (S/N T0310SJ146542)
 Component
Front Differential
 Fluid
NOT GIVEN (--- QTS)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0191865	JR0115578	JRMC466338
Sample Date		Client Info		27 Feb 2024	06 Sep 2022	04 May 2020
Machine Age	hrs	Client Info		3723	3211	3211
Oil Age	hrs	Client Info		3723	3211	932
Filter Age	hrs	Client Info		3723	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	ABNORMAL	ABNORMAL

WEAR

All component wear rates are normal.

PQ		ASTM D8184		220	90	270
Iron	ppm	ASTM D5185m	>500	147	71	178
Chromium	ppm	ASTM D5185m	>10	2	2	2
Nickel	ppm	ASTM D5185m	>10	1	2	1
Titanium	ppm	ASTM D5185m		<1	<1	1
Silver	ppm	ASTM D5185m		0	<1	0
Aluminum	ppm	ASTM D5185m	>25	3	0	5
Lead	ppm	ASTM D5185m	>25	1	15	0
Copper	ppm	ASTM D5185m	>100	158	▲ 156	▲ 212
Tin	ppm	ASTM D5185m	>10	<1	1	0
Vanadium	ppm	ASTM D5185m		<1	1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

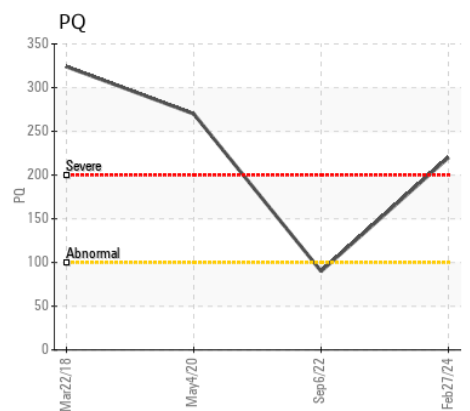
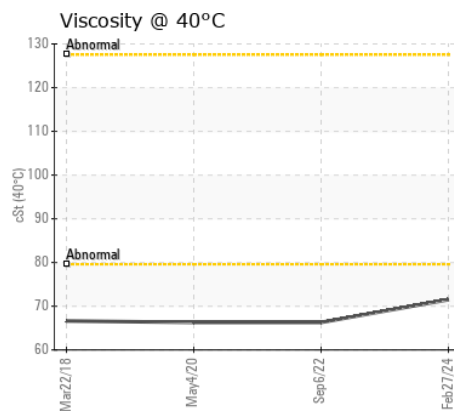
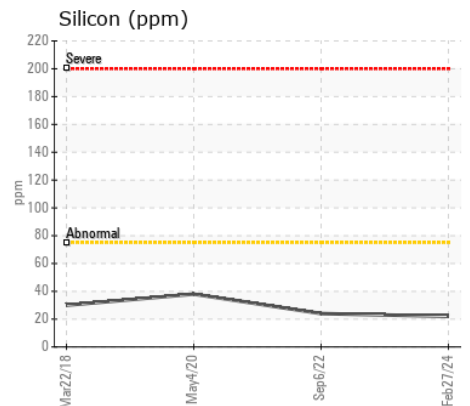
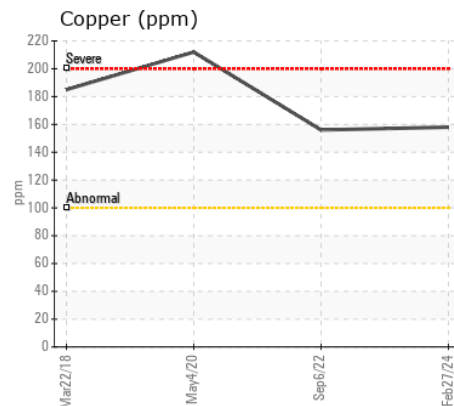
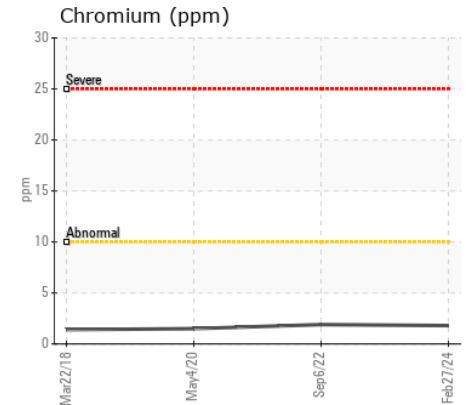
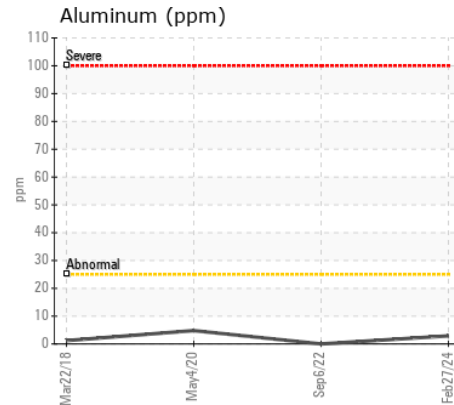
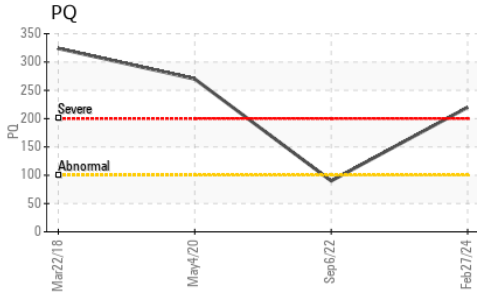
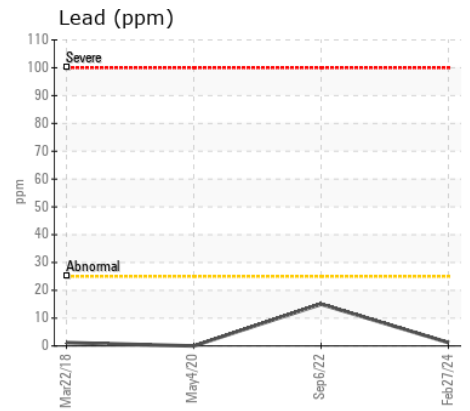
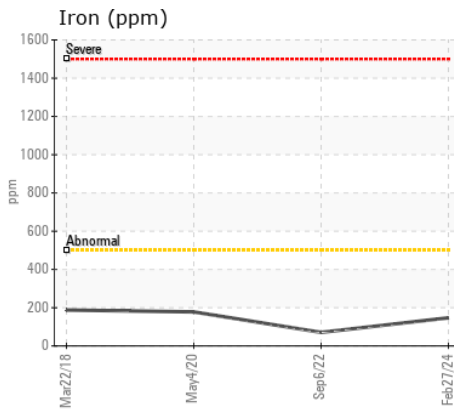
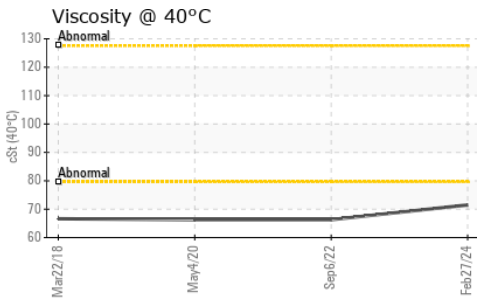
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>75	22	24	38
Potassium	ppm	ASTM D5185m	>20	2	<1	0
Water		WC Method	>.2	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	▲ HEAVY
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	>.2	NEG	NEG	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		5	7	6
Boron	ppm	ASTM D5185m		77	113	106
Barium	ppm	ASTM D5185m		4	0	4
Molybdenum	ppm	ASTM D5185m		26	23	30
Manganese	ppm	ASTM D5185m		9	9	11
Magnesium	ppm	ASTM D5185m		11	11	11
Calcium	ppm	ASTM D5185m		2433	2506	3882
Phosphorus	ppm	ASTM D5185m		985	1036	1191
Zinc	ppm	ASTM D5185m		1111	1194	1584
Sulfur	ppm	ASTM D5185m		11405	8109	8278
Visc @ 40°C	cSt	ASTM D445		71.5	66.3	66.3



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0191865 **Received** : 15 Apr 2024
Lab Number : 06148945 **Tested** : 16 Apr 2024
Unique Number : 10979023 **Diagnosed** : 17 Apr 2024 - Sean Felton
Test Package : MOBCE (Additional Tests: PQ)

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)

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