



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
JOHN DEERE 310SJ 44 (S/N 146542)
Component
Rear Differential
Fluid
TDH FLUID SAE 75W80 (--- QTS)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0191864	JR0115577	JRMC468360
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		0	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	NORMAL	NORMAL

WEAR

All component wear rates are normal.

PQ		ASTM D8184		225	73	96
Iron	ppm	ASTM D5185m	>500	144	189	206
Chromium	ppm	ASTM D5185m	>10	2	2	2
Nickel	ppm	ASTM D5185m	>10	1	9	9
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m		0	<1	0
Aluminum	ppm	ASTM D5185m	>25	3	1	3
Lead	ppm	ASTM D5185m	>25	1	6	2
Copper	ppm	ASTM D5185m	>100	158	56	43
Tin	ppm	ASTM D5185m	>10	<1	4	0
Vanadium	ppm	ASTM D5185m		<1	1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	MODER
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

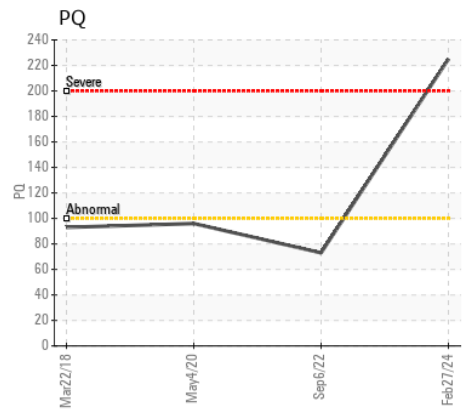
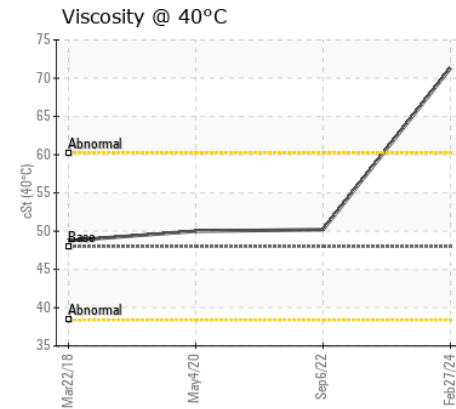
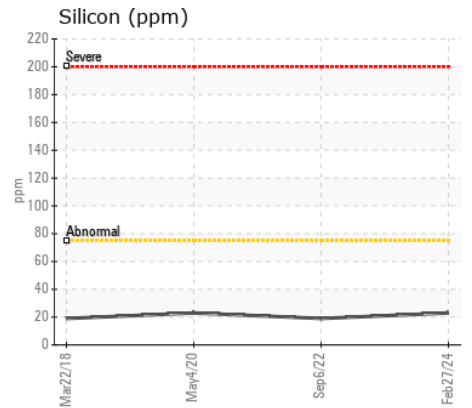
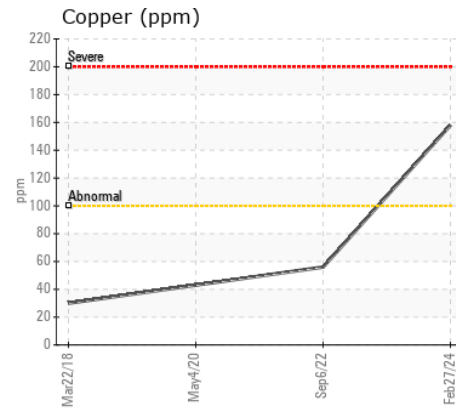
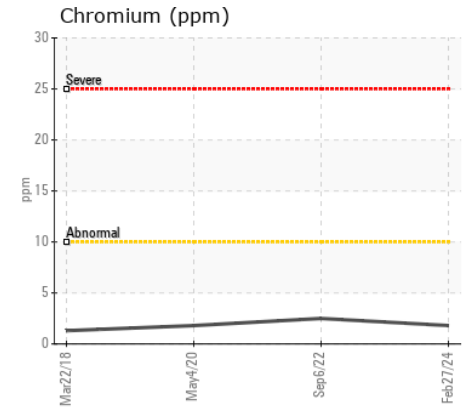
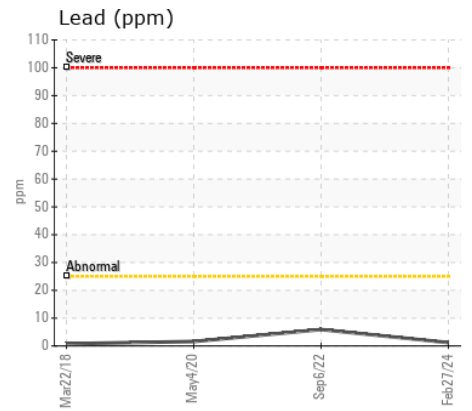
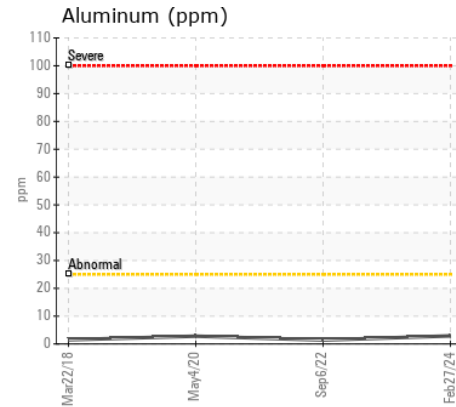
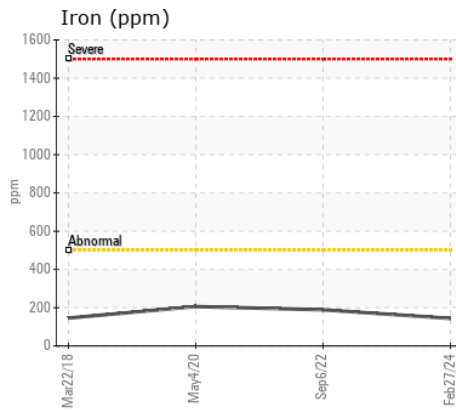
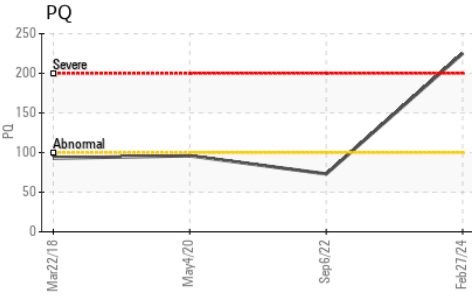
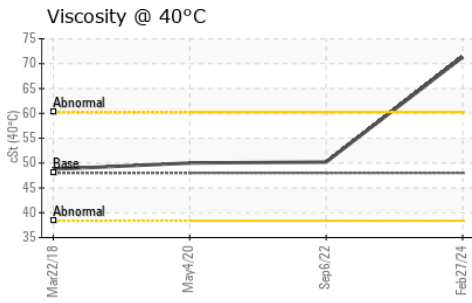
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>75	23	19	23
Potassium	ppm	ASTM D5185m	>20	2	<1	1
Water		WC Method	>.2	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	LIGHT
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	4	5
Boron	ppm	ASTM D5185m	10	77	<1	4
Barium	ppm	ASTM D5185m	10	4	0	<1
Molybdenum	ppm	ASTM D5185m	10	26	3	0
Manganese	ppm	ASTM D5185m		9	5	4
Magnesium	ppm	ASTM D5185m	100	9	103	108
Calcium	ppm	ASTM D5185m	3500	2421	2991	3803
Phosphorus	ppm	ASTM D5185m	1150	953	1029	1092
Zinc	ppm	ASTM D5185m	1150	1080	1175	1251
Sulfur	ppm	ASTM D5185m	5000	10949	5580	4502
Visc @ 40°C	cSt	ASTM D445	48	71.3	50.2	50.0



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0191864 **Received** : 15 Apr 2024
Lab Number : 06148946 **Tested** : 16 Apr 2024
Unique Number : 10979024 **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)

TURNER MURPHY
 PO BOX 3490
 ROCK HILL, SC
 US 29730

Contact: Bridget Thomas
 bthomas@turnermurphy.com

T: (803)328-3874
 F: (803)328-8243