



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Machine Id
JOHN DEERE 7810 740598 (S/N EW7810DH052505)

Component
Front Differential

Fluid
CASTROL UNIVERSAL TRACTOR FLUID (--- GAL)

RECOMMENDATION

We advise that you check for the source of water entry. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PCA0100993	PCA0091959	PCA0054501
Sample Date		Client Info		12 Mar 2024	05 Jun 2023	12 Nov 2021
Machine Age	hrs	Client Info		13742	12608	12298
Oil Age	hrs	Client Info		895	1000	2000
Filter Age	hrs	Client Info		0	375	0
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	SEVERE

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>500	40	30	90
Chromium	ppm	ASTM D5185m	>10	<1	<1	1
Nickel	ppm	ASTM D5185m	>10	<1	0	<1
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m		0	<1	<1
Aluminum	ppm	ASTM D5185m	>25	2	1	3
Lead	ppm	ASTM D5185m	>25	6	5	8
Copper	ppm	ASTM D5185m	>100	6	7	5
Tin	ppm	ASTM D5185m	>10	<1	<1	3
Vanadium	ppm	ASTM D5185m		0	0	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

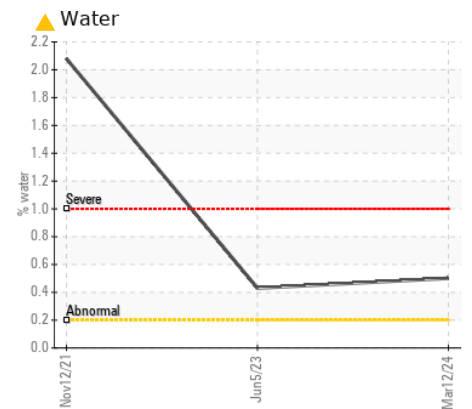
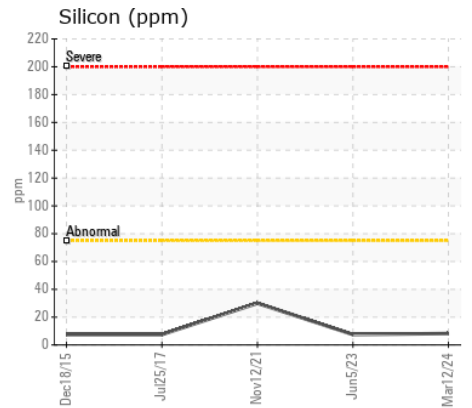
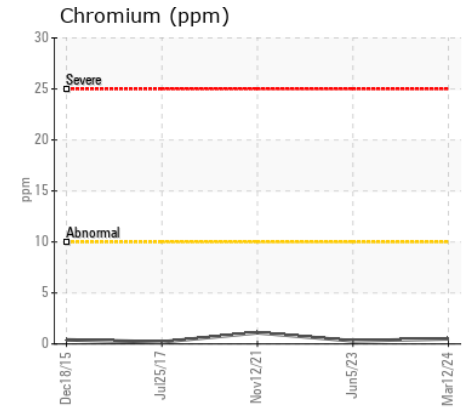
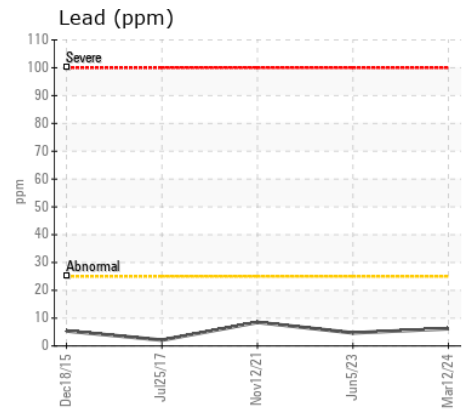
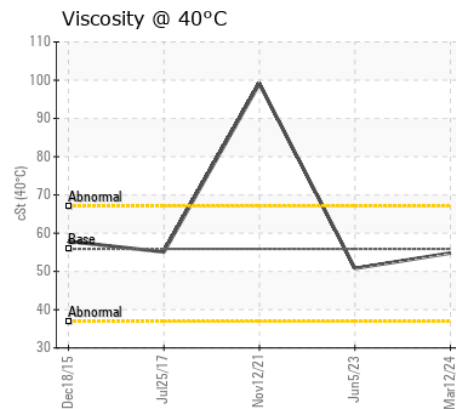
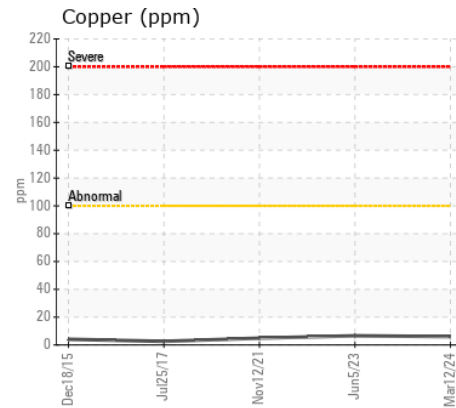
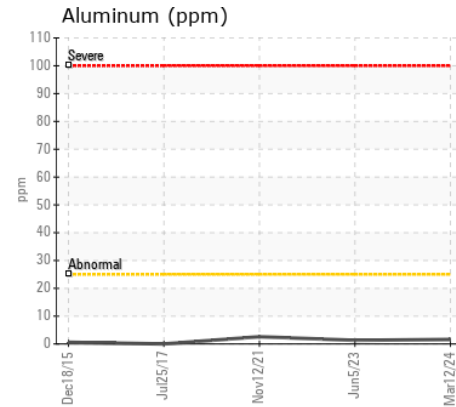
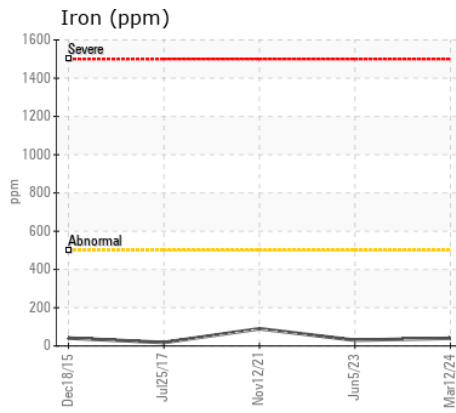
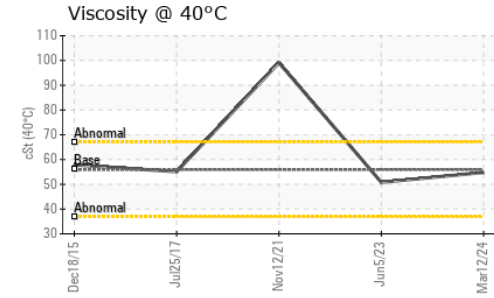
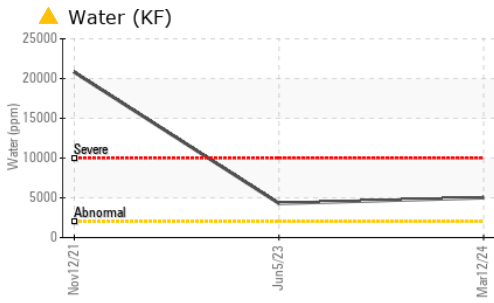
There is a moderate concentration of water present in the oil.

Silicon	ppm	ASTM D5185m	>75	8	8	30
Potassium	ppm	ASTM D5185m	>20	3	2	1
Water	%	ASTM D6304	>.2	▲ 0.501	▲ 0.430	▲ 2.08
ppm Water	ppm	ASTM D6304	>2000	▲ 5010	▲ 4300	▲ 20800
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	● MILKY
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>.2	● 0.2%	▲ 0.2%	▲ 0.2%

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		0	2	4
Boron	ppm	ASTM D5185m		13	11	39
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		1	2	3
Manganese	ppm	ASTM D5185m		<1	<1	2
Magnesium	ppm	ASTM D5185m		62	80	221
Calcium	ppm	ASTM D5185m		1833	2867	8130
Phosphorus	ppm	ASTM D5185m		923	923	1062
Zinc	ppm	ASTM D5185m		1097	1165	1460
Sulfur	ppm	ASTM D5185m		4053	4098	4230
Visc @ 40°C	cSt	ASTM D445	55.89	54.8	50.8	● 99.1



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0100993 **Received** : 19 Mar 2024
Lab Number : 06122763 **Tested** : 20 Mar 2024
Unique Number : 10936914 **Diagnosed** : 21 Mar 2024 - Jonathan Hester
Test Package : MOB 1 (Additional Tests: KF)

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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