



# OIL ANALYSIS REPORT

WEAR	<b>NORMAL</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>NORMAL</b>

Machine Id  
**JOHN DEERE 750C 6X77 (S/N T0750CX844441)**  
 Component  
**Diesel Engine**  
 Fluid  
**XTREME 15W40 (--- QTS)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>JR0197051</b>	JR0141082	---
Sample Date		Client Info		<b>09 Jul 2024</b>	07 Jul 2023	---
Machine Age	hrs	Client Info		<b>3256</b>	3170	---
Oil Age	hrs	Client Info		<b>3005</b>	3005	---
Filter Age	hrs	Client Info		<b>3005</b>	0	---
Oil Changed		Client Info		<b>Not Chngd</b>	Not Chngd	---
Filter Changed		Client Info		<b>Not Chngd</b>	N/A	---
Sample Status				<b>NORMAL</b>	NORMAL	---

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>51	<b>36</b>	13	---
Chromium	ppm	ASTM D5185m	>11	<b>&lt;1</b>	<1	---
Nickel	ppm	ASTM D5185m	>5	<b>0</b>	<1	---
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	0	---
Silver	ppm	ASTM D5185m	>3	<b>0</b>	0	---
Aluminum	ppm	ASTM D5185m	>31	<b>3</b>	1	---
Lead	ppm	ASTM D5185m	>26	<b>0</b>	0	---
Copper	ppm	ASTM D5185m	>26	<b>&lt;1</b>	0	---
Tin	ppm	ASTM D5185m	>4	<b>0</b>	0	---
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	---
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---

## CONTAMINATION

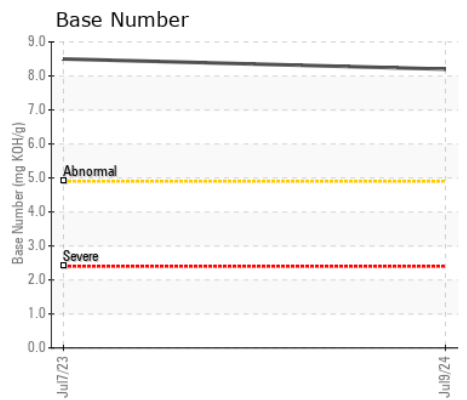
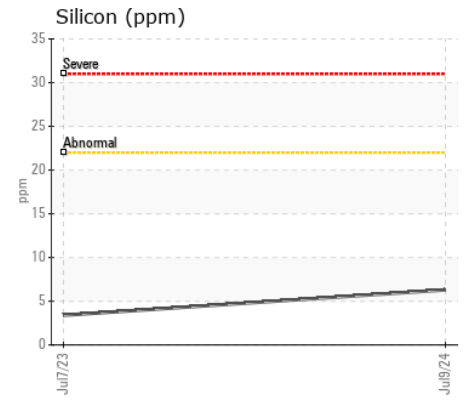
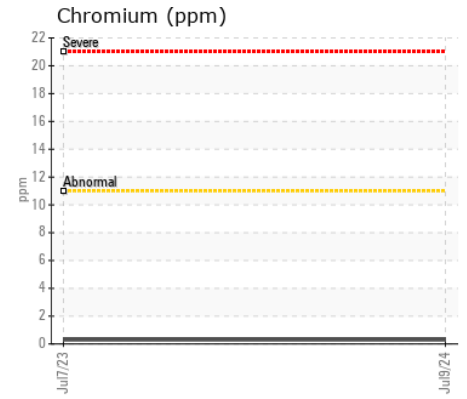
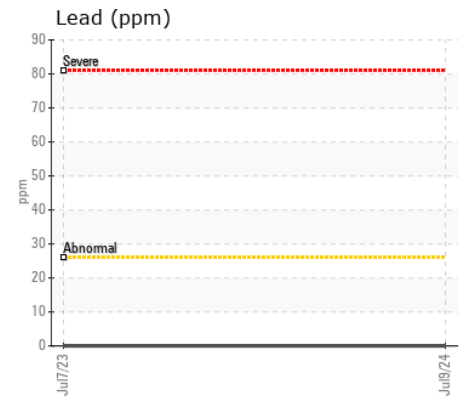
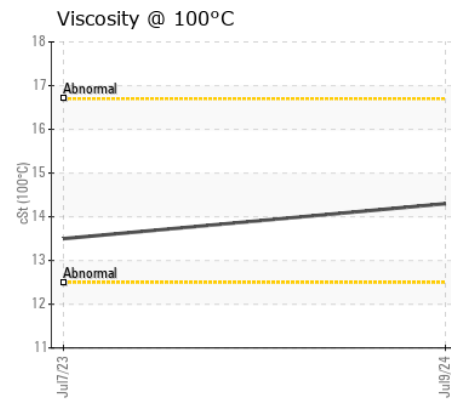
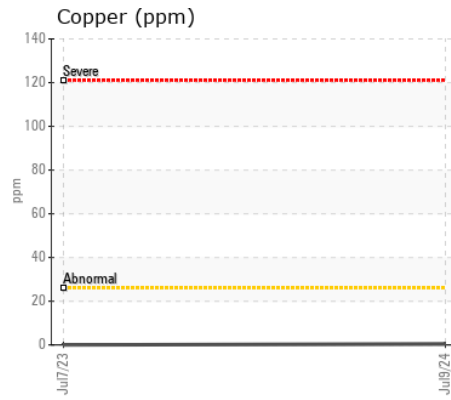
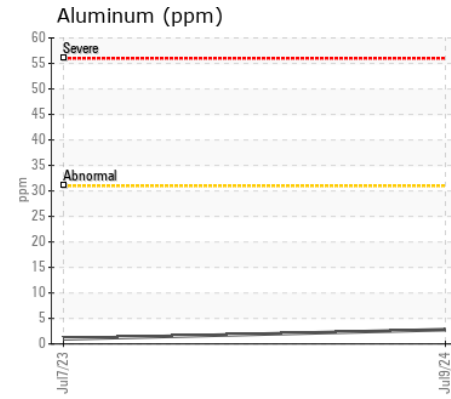
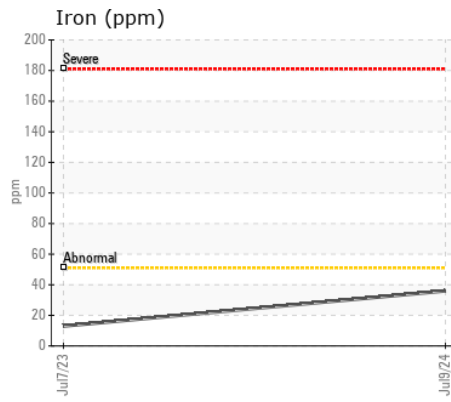
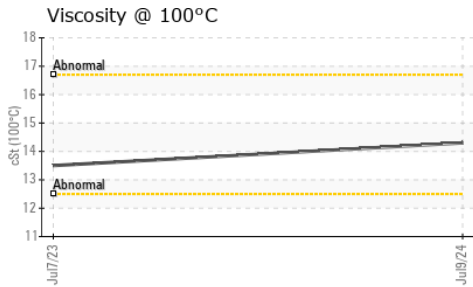
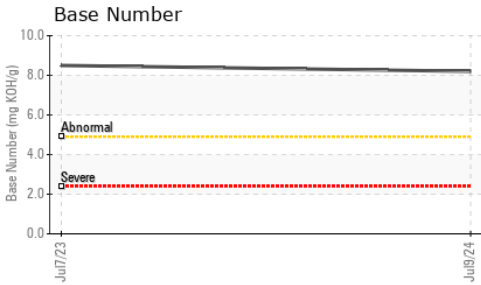
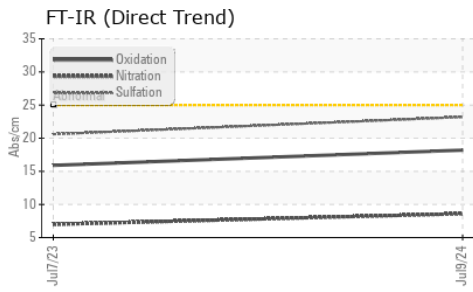
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>22	<b>6</b>	3	---
Potassium	ppm	ASTM D5185m	>20	<b>1</b>	0	---
Fuel		WC Method	>2.1	<b>&lt;1.0</b>	<1.0	---
Water		WC Method	>0.21	<b>NEG</b>	NEG	---
Glycol		WC Method		<b>NEG</b>	NEG	---
Soot %	%	*ASTM D7844	>3	<b>0.5</b>	0.2	---
Nitration	Abs/cm	*ASTM D7624	>20	<b>8.6</b>	7.0	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>23.2</b>	20.6	---
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	---
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	---
Emulsified Water	scalar	*Visual	>0.21	<b>NEG</b>	NEG	---

## FLUID CONDITION

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m	>31	<b>2</b>	0	---
Boron	ppm	ASTM D5185m		<b>428</b>	588	---
Barium	ppm	ASTM D5185m		<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185m		<b>88</b>	82	---
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	0	---
Magnesium	ppm	ASTM D5185m		<b>420</b>	449	---
Calcium	ppm	ASTM D5185m		<b>1619</b>	1620	---
Phosphorus	ppm	ASTM D5185m		<b>1084</b>	1169	---
Zinc	ppm	ASTM D5185m		<b>1333</b>	1513	---
Sulfur	ppm	ASTM D5185m		<b>4094</b>	4986	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>18.2</b>	15.9	---
Base Number (BN)	mg KOH/g	ASTM D2896		<b>8.2</b>	8.5	---
Visc @ 100°C	cSt	ASTM D445		<b>14.3</b>	13.5	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0197051 **Received** : 16 Jul 2024  
**Lab Number** : 06237574 **Tested** : 17 Jul 2024  
**Unique Number** : 11126408 **Diagnosed** : 17 Jul 2024 - Wes Davis  
**Test Package** : MOBCE ( Additional Tests: TBN )

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)

**NC FOREST SERVICE**  
 221 AIRPORT RD  
 FAYETTEVILLE, NC  
 US 28306

Contact: WALTER CAPPS  
 WATER.CAPPS@NCAGR.GOV

T:  
 F: