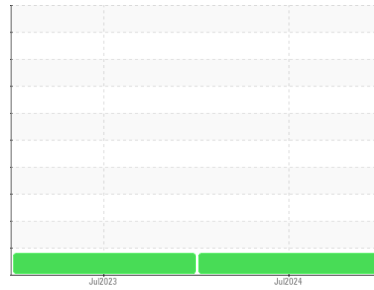


# OIL ANALYSIS REPORT

## Sample Rating Trend


**WEAR**


Machine Id  
**JOHN DEERE 750C 6X77 (S/N T0750CX844441)**  
 Component  
**Hydraulic System**  
 Fluid  
**JOHN DEERE HY-GARD HYD/TRANS (--- QTS)**

### DIAGNOSIS

#### ▲ Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

#### ▲ Wear

The copper level is abnormal. All other component wear rates are normal.

#### Contamination

The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.

#### Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			<b>JR0197055</b>	JR0141074	---
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>3162</b>	2855	---
Oil Changed	Client Info			<b>Not Chngd</b>	Not Chngd	---
Sample Status				<b>ABNORMAL</b>	ABNORMAL	---

CONTAMINATION		method	limit/base	current	history1	history2
Water	WC Method		>0.1	<b>NEG</b>	NEG	---

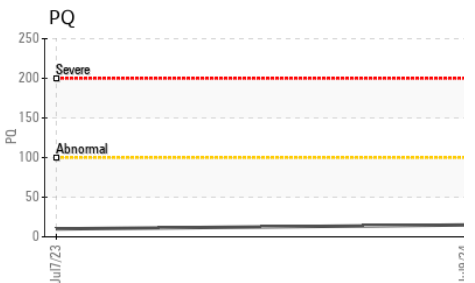
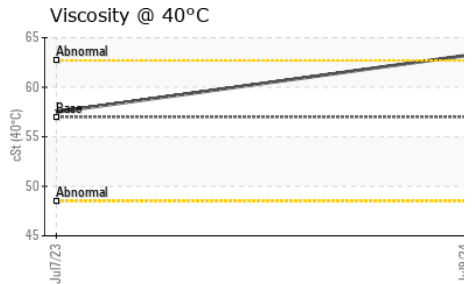
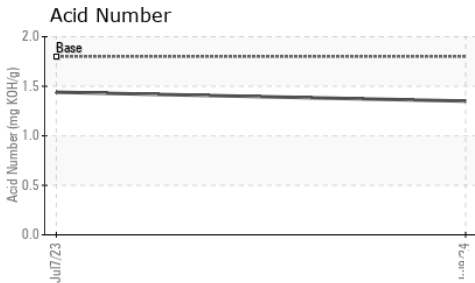
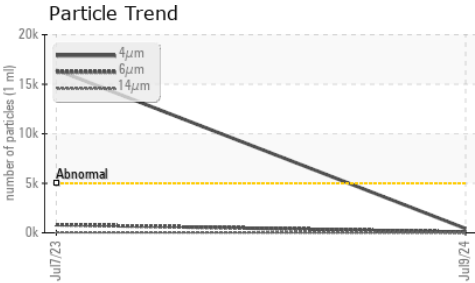
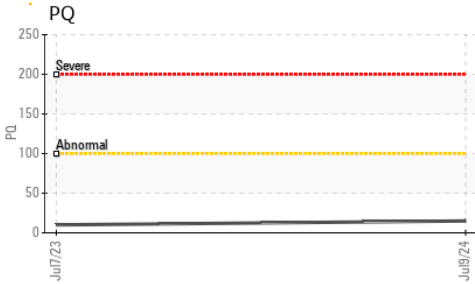
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184		<b>15</b>	10	---
Iron	ppm	ASTM D5185m	>20	<b>3</b>	4	---
Chromium	ppm	ASTM D5185m	>10	<b>0</b>	<1	---
Nickel	ppm	ASTM D5185m	>10	<b>0</b>	0	---
Titanium	ppm	ASTM D5185m		<b>0</b>	0	---
Silver	ppm	ASTM D5185m		<b>2</b>	0	---
Aluminum	ppm	ASTM D5185m	>10	<b>&lt;1</b>	<1	---
Lead	ppm	ASTM D5185m	>10	<b>&lt;1</b>	<1	---
Copper	ppm	ASTM D5185m	>75	<b>▲ 77</b>	2	---
Tin	ppm	ASTM D5185m	>10	<b>0</b>	0	---
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	---
Cadmium	ppm	ASTM D5185m		<b>0</b>	<1	---

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	6	<b>105</b>	91	---
Barium	ppm	ASTM D5185m	0	<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185m	0	<b>22</b>	18	---
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	0	---
Magnesium	ppm	ASTM D5185m	145	<b>288</b>	108	---
Calcium	ppm	ASTM D5185m	3570	<b>2138</b>	1721	---
Phosphorus	ppm	ASTM D5185m	1290	<b>1174</b>	923	---
Zinc	ppm	ASTM D5185m	1640	<b>1290</b>	1234	---
Sulfur	ppm	ASTM D5185m		<b>4206</b>	3748	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	<b>6</b>	4	---
Sodium	ppm	ASTM D5185m		<b>2</b>	<1	---
Potassium	ppm	ASTM D5185m	>20	<b>0</b>	3	---

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	<b>427</b>	<b>▲ 16459</b>	---
Particles >6µm		ASTM D7647	>1300	<b>70</b>	819	---
Particles >14µm		ASTM D7647	>160	<b>9</b>	54	---
Particles >21µm		ASTM D7647	>40	<b>2</b>	10	---
Particles >38µm		ASTM D7647	>10	<b>0</b>	0	---
Particles >71µm		ASTM D7647	>3	<b>0</b>	0	---
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<b>16/13/10</b>	<b>▲ 21/17/13</b>	---

# OIL ANALYSIS REPORT



FLUID DEGRADATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 1.8	<b>1.35</b>	1.44	---

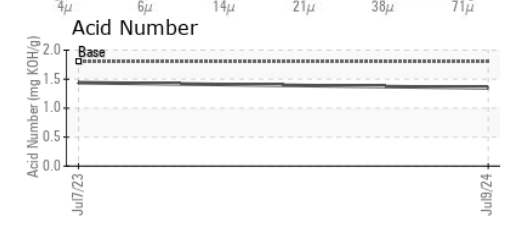
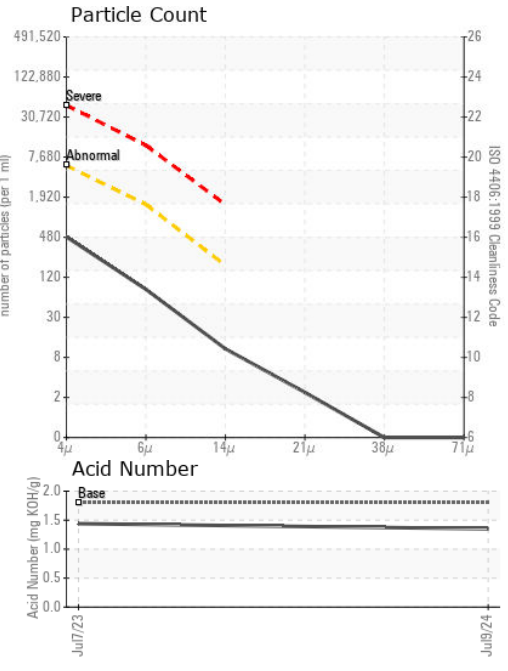
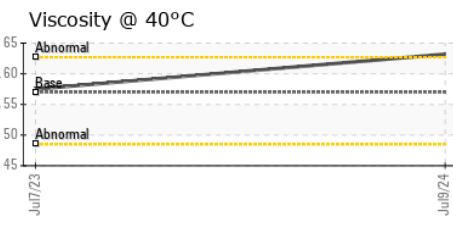
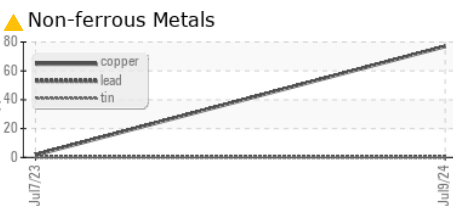
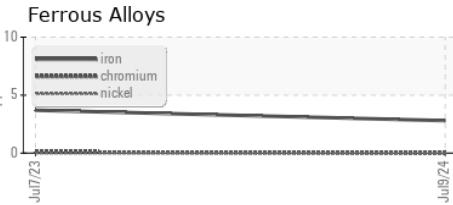
VISUAL	method	limit/base	current	history1	history2	
White Metal	scalar	*Visual	NONE	NONE	LIGHT	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	---
Free Water	scalar	*Visual		NEG	NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 57.0	<b>63.2</b>	57.5	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
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## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0197055      **Received** : 16 Jul 2024  
**Lab Number** : **06237650**      **Tested** : 17 Jul 2024  
**Unique Number** : 11126484      **Diagnosed** : 18 Jul 2024 - Don Baldrige  
**Test Package** : MOBCE ( Additional Tests: PQ )

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

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)

Contact: WALTER CAPPS  
 WATER.CAPPS@NCAGR.GOV

T:  
 F: