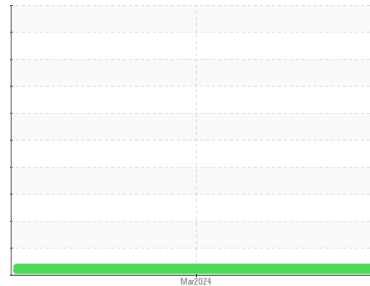




# OIL ANALYSIS REPORT

Sample Rating Trend



VISCOSITY



Machine Id  
**JOHN DEERE 748L 1DW748LBALF706852**  
 Component  
**Diesel Engine**  
 Fluid  
**JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (--- QTS)**

## DIAGNOSIS

### Recommendation

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### Contamination

Fuel content negligible. There is no indication of any contamination in the oil.

### Fluid Condition

The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>WE0006912</b>	---	---
Sample Date	Client Info		<b>25 Mar 2024</b>	---	---
Machine Age	hrs	Client Info	<b>5906</b>	---	---
Oil Age	hrs	Client Info	<b>2</b>	---	---
Oil Changed	Client Info		<b>Changed</b>	---	---
Sample Status			<b>ATTENTION</b>	---	---

## CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>0.21	<b>NEG</b>	---	---
Glycol	WC Method		<b>NEG</b>	---	---

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >51	<b>8</b>	---	---
Chromium	ppm	ASTM D5185m >11	<b>&lt;1</b>	---	---
Nickel	ppm	ASTM D5185m >5	<b>&lt;1</b>	---	---
Titanium	ppm	ASTM D5185m	<b>&lt;1</b>	---	---
Silver	ppm	ASTM D5185m >3	<b>0</b>	---	---
Aluminum	ppm	ASTM D5185m >31	<b>1</b>	---	---
Lead	ppm	ASTM D5185m >26	<b>2</b>	---	---
Copper	ppm	ASTM D5185m >26	<b>7</b>	---	---
Tin	ppm	ASTM D5185m >4	<b>1</b>	---	---
Vanadium	ppm	ASTM D5185m	<b>&lt;1</b>	---	---
Cadmium	ppm	ASTM D5185m	<b>&lt;1</b>	---	---

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	<b>0</b>	---	---
Barium	ppm	ASTM D5185m	<b>1</b>	---	---
Molybdenum	ppm	ASTM D5185m	<b>3</b>	---	---
Manganese	ppm	ASTM D5185m	<b>4</b>	---	---
Magnesium	ppm	ASTM D5185m	<b>29</b>	---	---
Calcium	ppm	ASTM D5185m	<b>2434</b>	---	---
Phosphorus	ppm	ASTM D5185m	<b>951</b>	---	---
Zinc	ppm	ASTM D5185m	<b>1109</b>	---	---
Sulfur	ppm	ASTM D5185m	<b>4529</b>	---	---

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >22	<b>8</b>	---	---
Sodium	ppm	ASTM D5185m >31	<b>2</b>	---	---
Potassium	ppm	ASTM D5185m >20	<b>2</b>	---	---
Fuel	%	ASTM D3524 >2.1	<b>0.4</b>	---	---

## INFRA-RED

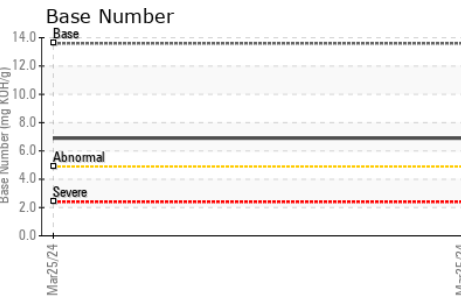
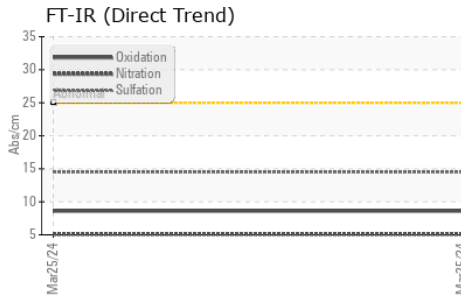
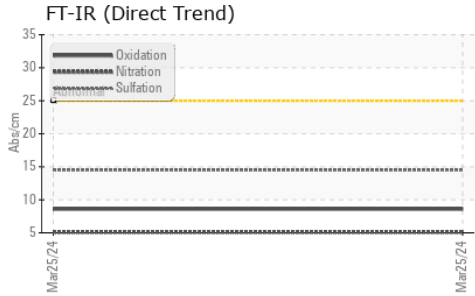
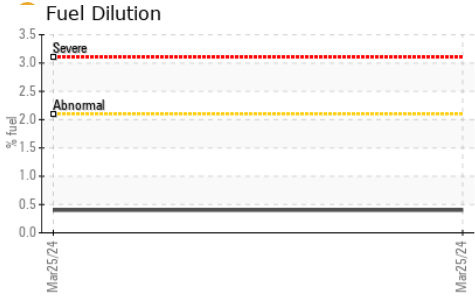
	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	<b>0</b>	---	---
Nitration	Abs/cm	*ASTM D7624 >20	<b>5.1</b>	---	---
Sulfation	Abs/.1mm	*ASTM D7415 >30	<b>14.5</b>	---	---

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	<b>8.6</b>	---	---
Base Number (BN)	mg KOH/g	ASTM D2896 13.6	<b>6.9</b>	---	---



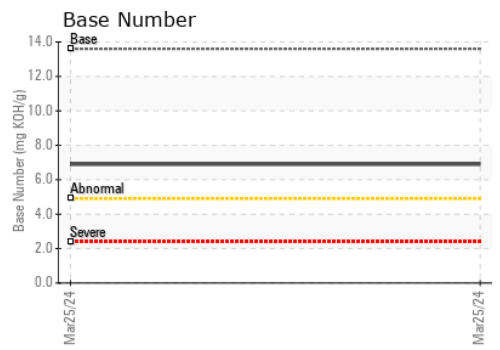
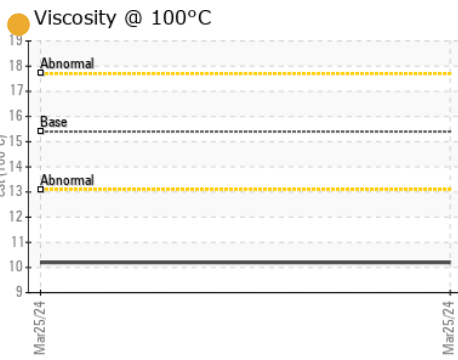
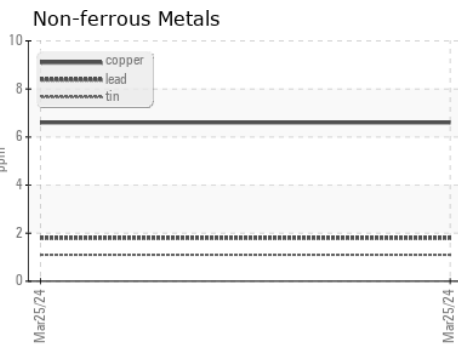
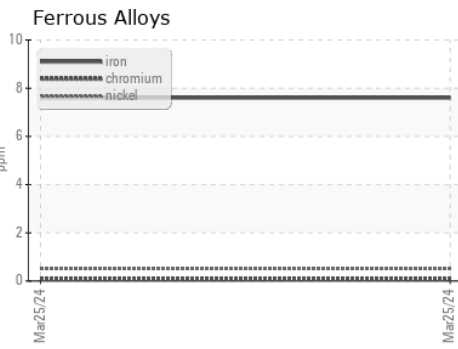
# OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2	
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---
Precipitate	scalar	*Visual	NONE	NONE	---	---
Silt	scalar	*Visual	NONE	NONE	---	---
Debris	scalar	*Visual	NONE	NONE	---	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---	---
Appearance	scalar	*Visual	NORML	NORML	---	---
Odor	scalar	*Visual	NORML	NORML	---	---
Emulsified Water	scalar	*Visual	>0.21	NEG	---	---
Free Water	scalar	*Visual		NEG	---	---

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 100°C	cSt	ASTM D445	15.4	● 10.2	---	---

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WE0006912      **Received** : 11 Apr 2024  
**Lab Number** : 06145577      **Tested** : 16 Apr 2024  
**Unique Number** : 10970385      **Diagnosed** : 16 Apr 2024 - Jonathan Hester  
**Test Package** : CONST ( Additional Tests: FuelDilution, PercentFuel, TBN )

**WARRIOR TRACTOR AND EQUIPMENT - NORTHPORT**  
 P.O. BOX 412  
 NORTHPORT, AL  
 US 35476  
 Contact: PAMELA CLARK  
 pamela@warriortractor.com  
 T: (205)339-0300  
 F:

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)