

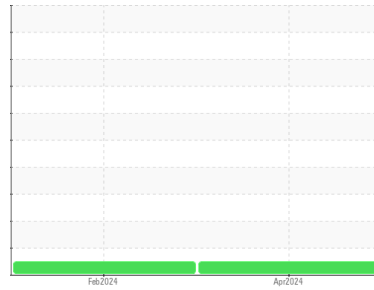


# OIL ANALYSIS REPORT



Machine Id  
**CATERPILLAR 5661**  
 Component  
**Front Differential**  
 Fluid  
**TDTO FLUID SAE 50 (--- GAL)**

## Sample Rating Trend



**NORMAL**



### DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

#### Contamination

There is no indication of any contamination in the oil.

#### Fluid Condition

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

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			<b>WC0924835</b>	WC0900102	---
Sample Date	Client Info			<b>10 Apr 2024</b>	17 Feb 2024	---
Machine Age	hrs	Client Info		<b>11198</b>	0	---
Oil Age	hrs	Client Info		<b>0</b>	0	---
Oil Changed	Client Info			<b>N/A</b>	N/A	---
Sample Status				<b>NORMAL</b>	NORMAL	---

CONTAMINATION		method	limit/base	current	history1	history2
Water	WC Method		>.2	<b>NEG</b>	NEG	---

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>500	<b>44</b>	38	---
Chromium	ppm	ASTM D5185m	>3	<b>&lt;1</b>	0	---
Nickel	ppm	ASTM D5185m	>3	<b>0</b>	<1	---
Titanium	ppm	ASTM D5185m	>2	<b>0</b>	0	---
Silver	ppm	ASTM D5185m	>2	<b>0</b>	0	---
Aluminum	ppm	ASTM D5185m	>30	<b>1</b>	<1	---
Lead	ppm	ASTM D5185m	>13	<b>0</b>	0	---
Copper	ppm	ASTM D5185m	>103	<b>4</b>	3	---
Tin	ppm	ASTM D5185m	>5	<b>0</b>	<1	---
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	---
Cadmium	ppm	ASTM D5185m		<b>0</b>	0	---

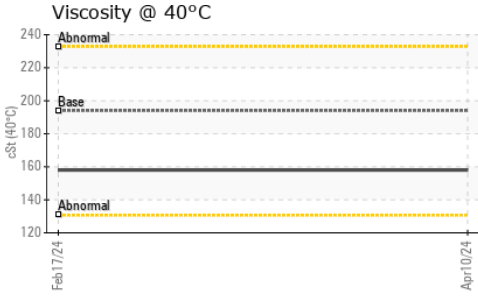
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	37	<b>5</b>	4	---
Barium	ppm	ASTM D5185m	7	<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185m	5	<b>1</b>	0	---
Manganese	ppm	ASTM D5185m		<b>0</b>	<1	---
Magnesium	ppm	ASTM D5185m	40	<b>25</b>	27	---
Calcium	ppm	ASTM D5185m	2650	<b>3183</b>	2816	---
Phosphorus	ppm	ASTM D5185m	1050	<b>1180</b>	1015	---
Zinc	ppm	ASTM D5185m	1075	<b>1318</b>	1227	---
Sulfur	ppm	ASTM D5185m	5750	<b>8572</b>	7841	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>100	<b>5</b>	4	---
Sodium	ppm	ASTM D5185m		<b>0</b>	2	---
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	<1	---

VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Precipitate	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
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	>.2	<b>NEG</b>	NEG	---
Free Water	scalar	*Visual		<b>NEG</b>	NEG	---



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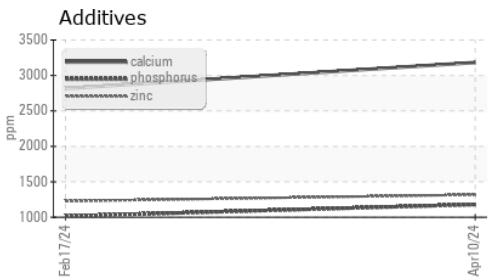
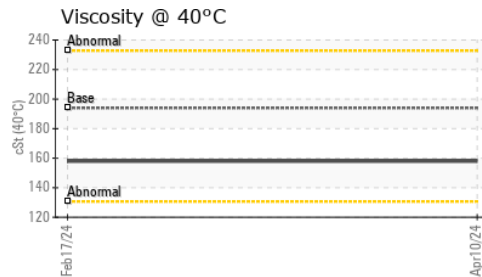
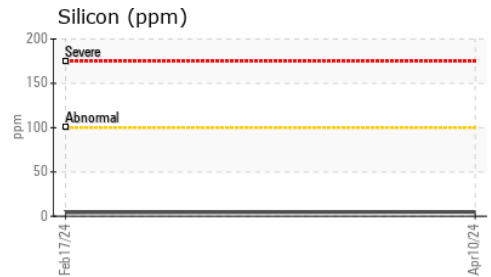
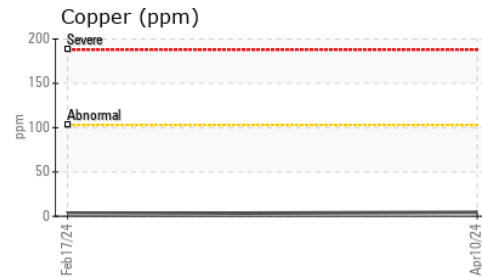
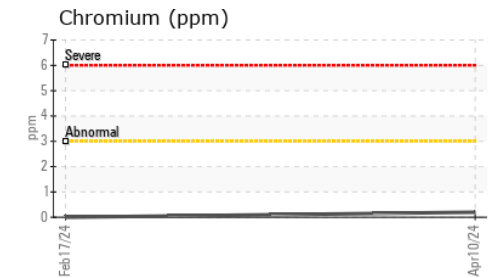
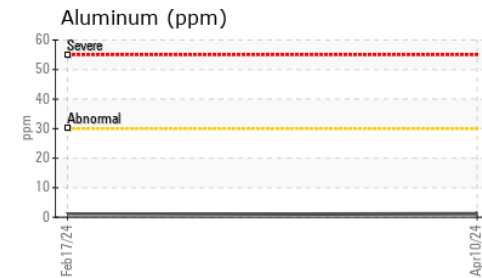
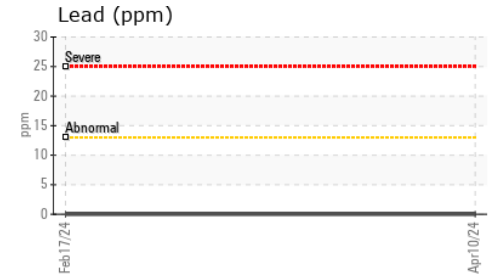
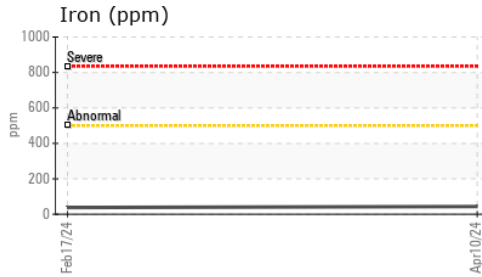


FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D445	194	<b>158</b>	158	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
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Color			no image	no image	no image
Bottom			no image	no image	no image

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0924835      **Received** : 16 Apr 2024  
**Lab Number** : **06151353**      **Tested** : 18 Apr 2024  
**Unique Number** : 10981431      **Diagnosed** : 18 Apr 2024 - Wes Davis  
**Test Package** : MOB 1

**INTERSTATE WASTE-NEWARK**  
 110 EVERGREEN AVE, BAY 3  
 NEWARK, NJ  
 US 07114  
 Contact: Robert Witynski  
 RWitynski@interstatewaste.com

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)

T:  
F: