



# OIL ANALYSIS REPORT

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



Machine Id  
**CATERPILLAR 24370**  
Component  
**Left Planetary**  
Fluid  
**CAT TDTO SAE 50 (--- GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0872170</b>	---	---
Sample Date		Client Info		<b>14 May 2024</b>	---	---
Machine Age	hrs	Client Info		<b>50</b>	---	---
Oil Age	hrs	Client Info		<b>50</b>	---	---
Filter Age	hrs	Client Info		<b>0</b>	---	---
Oil Changed		Client Info		<b>Changed</b>	---	---
Filter Changed		Client Info		<b>N/A</b>	---	---
Sample Status				<b>NORMAL</b>	---	---

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>500	<b>163</b>	---	---
Chromium	ppm	ASTM D5185(m)	>10	<b>5</b>	---	---
Nickel	ppm	ASTM D5185(m)	>10	<b>0</b>	---	---
Titanium	ppm	ASTM D5185(m)		<b>&lt;1</b>	---	---
Silver	ppm	ASTM D5185(m)		<b>0</b>	---	---
Aluminum	ppm	ASTM D5185(m)	>25	<b>4</b>	---	---
Lead	ppm	ASTM D5185(m)	>25	<b>0</b>	---	---
Copper	ppm	ASTM D5185(m)	>75	<b>26</b>	---	---
Tin	ppm	ASTM D5185(m)	>10	<b>2</b>	---	---
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	---	---
White Metal	scalar	Visual*	NONE	<b>VLITE</b>	---	---
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	---	---

## CONTAMINATION

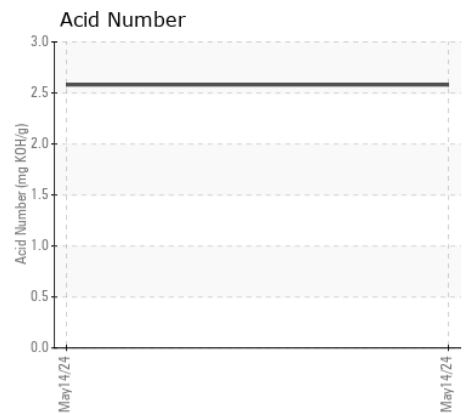
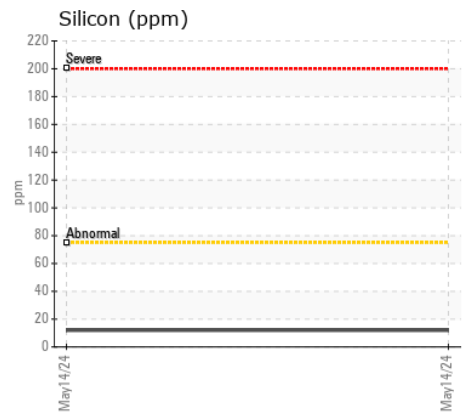
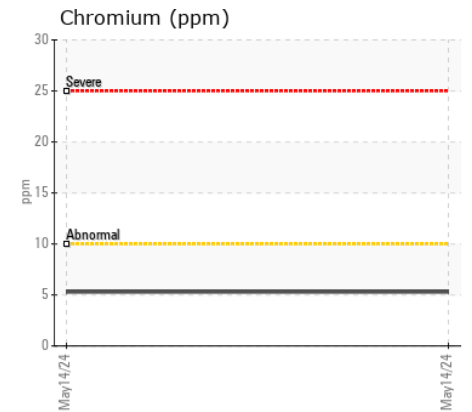
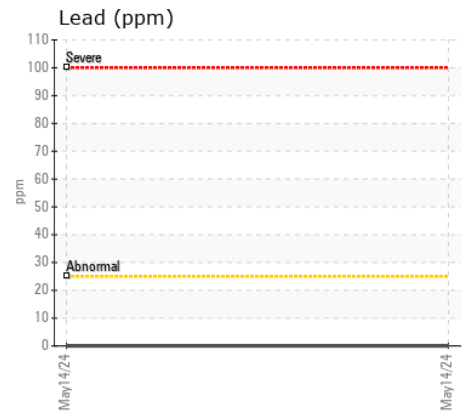
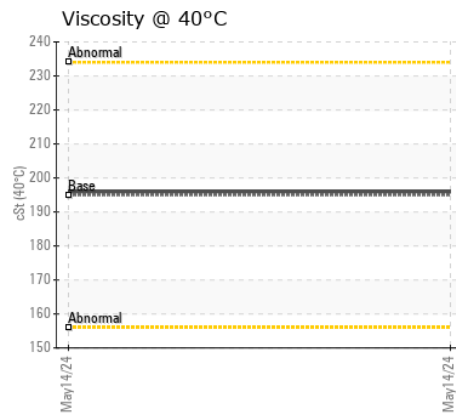
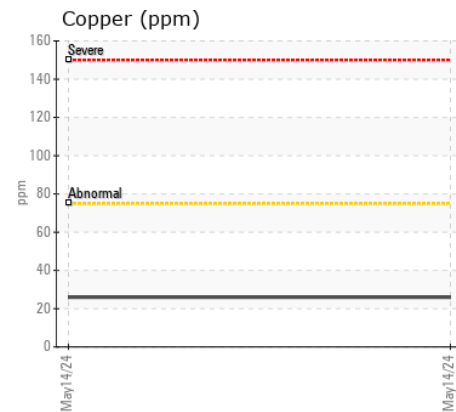
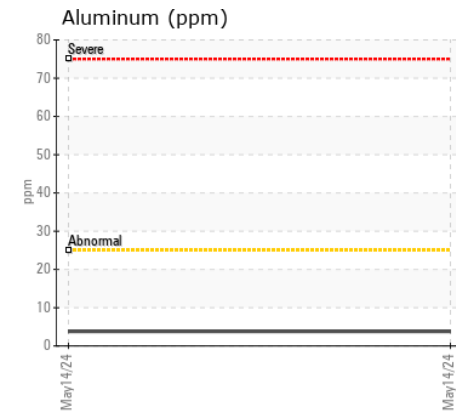
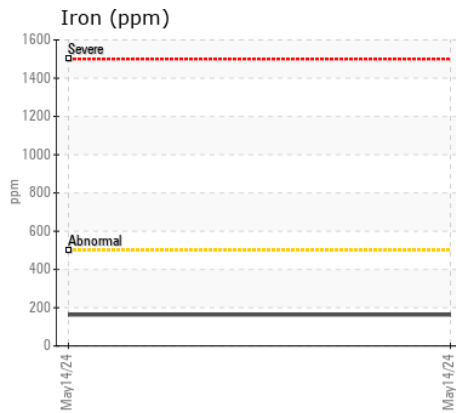
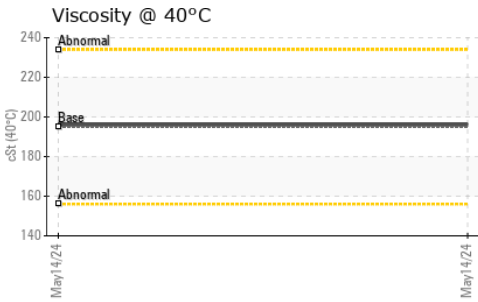
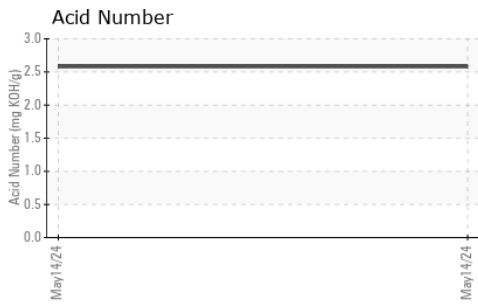
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>75	<b>12</b>	---	---
Potassium	ppm	ASTM D5185(m)	>20	<b>2</b>	---	---
Water		WC Method	>0.2	<b>NEG</b>	---	---
Silt	scalar	Visual*	NONE	<b>NONE</b>	---	---
Debris	scalar	Visual*	NONE	<b>VLITE</b>	---	---
Sand/Dirt	scalar	Visual*	NONE	<b>NONE</b>	---	---
Appearance	scalar	Visual*	NORML	<b>NORML</b>	---	---
Odor	scalar	Visual*	NORML	<b>NORML</b>	---	---
Emulsified Water	scalar	Visual*	>0.2	<b>NEG</b>	---	---

## FLUID CONDITION

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

Sodium	ppm	ASTM D5185(m)		<b>23</b>	---	---
Boron	ppm	ASTM D5185(m)		<b>2</b>	---	---
Barium	ppm	ASTM D5185(m)		<b>6</b>	---	---
Molybdenum	ppm	ASTM D5185(m)		<b>48</b>	---	---
Manganese	ppm	ASTM D5185(m)		<b>5</b>	---	---
Magnesium	ppm	ASTM D5185(m)		<b>9</b>	---	---
Calcium	ppm	ASTM D5185(m)	2980	<b>2988</b>	---	---
Phosphorus	ppm	ASTM D5185(m)	1100	<b>998</b>	---	---
Zinc	ppm	ASTM D5185(m)	1270	<b>1223</b>	---	---
Sulfur	ppm	ASTM D5185(m)		<b>8214</b>	---	---
Acid Number (AN)	mg KOH/g	ASTM D974*		<b>2.58</b>	---	---
Visc @ 40°C	cSt	ASTM D7279(m)	195	<b>196</b>	---	---



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0872170 **Received** : 15 May 2024  
**Lab Number** : 02635811 **Tested** : 16 May 2024  
**Unique Number** : 5776964 **Diagnosed** : 16 May 2024 - Wes Davis  
**Test Package** : MOB 2 ( Additional Tests: TAN Man )

**BRANTCO CONSTRUCTION**  
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To discuss this sample report, contact Customer Service at 1-800-268-2131.  
 Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab.  
 Validity of results and interpretation are based on the sample and information as supplied.