

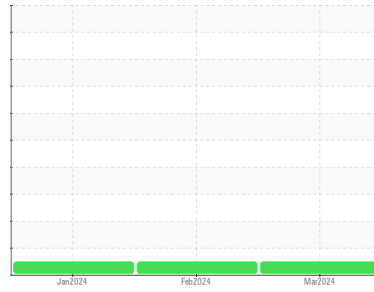


# OIL ANALYSIS REPORT



Area  
**MINING**  
Machine Id  
**ME-61 CATERPILLAR 980M MK700210**  
Component  
**Transmission (Manual)**  
Fluid  
**CAT TDTO 30W (20 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 fluid.

#### Fluid Condition

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

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			<b>WC0909671</b>	WC0909661	WC0880664
Sample Date	Client Info			<b>28 Mar 2024</b>	28 Feb 2024	11 Jan 2024
Machine Age	hrs	Client Info		<b>11312</b>	10782	10185
Oil Age	hrs	Client Info		<b>1000</b>	500	1000
Oil Changed	Client Info			<b>Changed</b>	Not Changd	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

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

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	<b>16</b>	3	9
Chromium	ppm	ASTM D5185m	>5	<b>&lt;1</b>	<1	0
Nickel	ppm	ASTM D5185m	>5	<b>&lt;1</b>	0	<1
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	0
Silver	ppm	ASTM D5185m	>7	<b>&lt;1</b>	0	0
Aluminum	ppm	ASTM D5185m	>25	<b>4</b>	2	1
Lead	ppm	ASTM D5185m	>45	<b>2</b>	0	0
Copper	ppm	ASTM D5185m	>225	<b>2</b>	<1	<1
Tin	ppm	ASTM D5185m	>10	<b>2</b>	0	<1
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Cadmium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0

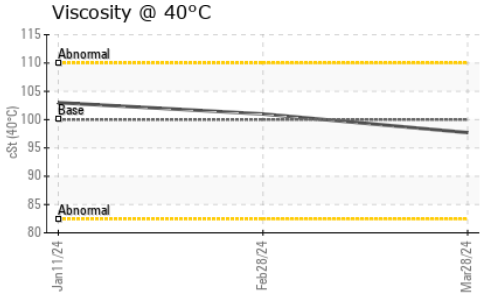
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		<b>6</b>	2	2
Barium	ppm	ASTM D5185m		<b>0</b>	0	<1
Molybdenum	ppm	ASTM D5185m		<b>2</b>	1	0
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1
Magnesium	ppm	ASTM D5185m		<b>19</b>	19	18
Calcium	ppm	ASTM D5185m	2980	<b>3042</b>	2926	2679
Phosphorus	ppm	ASTM D5185m	1100	<b>1074</b>	1061	852
Zinc	ppm	ASTM D5185m	1270	<b>1225</b>	1262	1069
Sulfur	ppm	ASTM D5185m		<b>6824</b>	6717	5323

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>125	<b>7</b>	5	5
Sodium	ppm	ASTM D5185m		<b>&lt;1</b>	1	3
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	1	<1

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



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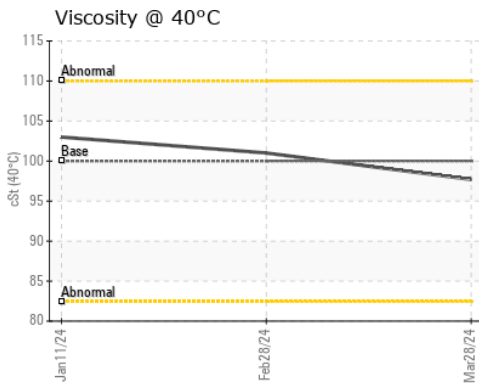
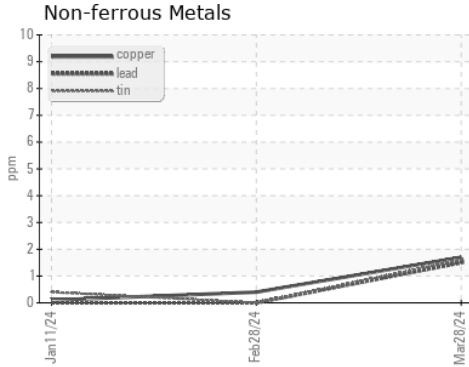
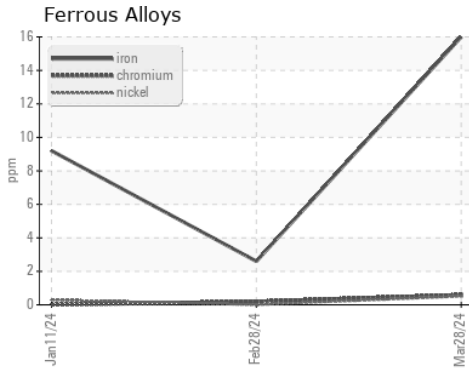


FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 100	<b>97.7</b>	101	103

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.** : WC0909671      **Received** : 04 Apr 2024  
**Lab Number** : **06138922**      **Tested** : 05 Apr 2024  
**Unique Number** : 10963730      **Diagnosed** : 05 Apr 2024 - Wes Davis  
**Test Package** : CONST

**COVIA - CAMDEN - 094**  
 1700 SAND MILL RD  
 CAMDEN, TN  
 US 38320  
 Contact: TRACY KEE  
 tracy.kee@coviacorp.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: