

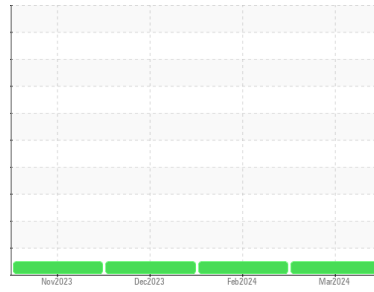


# OIL ANALYSIS REPORT



Area  
**MINING**  
Machine Id  
**ME-60 CATERPILLAR 982M MK800210**  
Component  
**Front Differential**  
Fluid  
**CAT TDTO SAE 50 (22 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>WC0909680</b>	WC0909674	WC0880658
Sample Date	Client Info			<b>28 Mar 2024</b>	28 Feb 2024	26 Dec 2023
Machine Age	hrs	Client Info		<b>11887</b>	11413	10932
Oil Age	hrs	Client Info		<b>1000</b>	500	2000
Oil Changed	Client Info			<b>N/A</b>	Not Changd	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

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

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>500	<b>23</b>	28	22
Chromium	ppm	ASTM D5185m	>3	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185m	>3	<b>&lt;1</b>	<1	<1
Titanium	ppm	ASTM D5185m	>2	<b>&lt;1</b>	<1	<1
Silver	ppm	ASTM D5185m	>2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>30	<b>3</b>	3	2
Lead	ppm	ASTM D5185m	>13	<b>0</b>	1	<1
Copper	ppm	ASTM D5185m	>103	<b>3</b>	4	7
Tin	ppm	ASTM D5185m	>5	<b>&lt;1</b>	<1	<1
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
Cadmium	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1

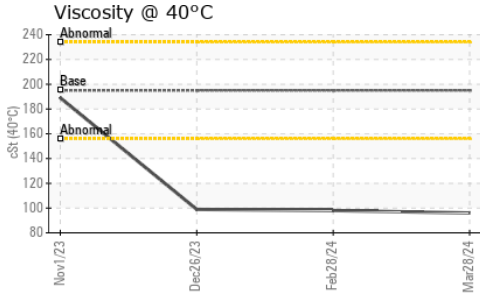
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		<b>7</b>	5	2
Barium	ppm	ASTM D5185m		<b>0</b>	0	7
Molybdenum	ppm	ASTM D5185m		<b>2</b>	2	2
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m		<b>26</b>	27	24
Calcium	ppm	ASTM D5185m	2980	<b>3031</b>	2961	3149
Phosphorus	ppm	ASTM D5185m	1100	<b>1064</b>	1108	997
Zinc	ppm	ASTM D5185m	1270	<b>1280</b>	1297	1287
Sulfur	ppm	ASTM D5185m		<b>7158</b>	7976	6985

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>100	<b>8</b>	15	6
Sodium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	0
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	1	2

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	>.2	<b>NEG</b>	NEG	NEG
Free Water	scalar	*Visual		<b>NEG</b>	NEG	NEG



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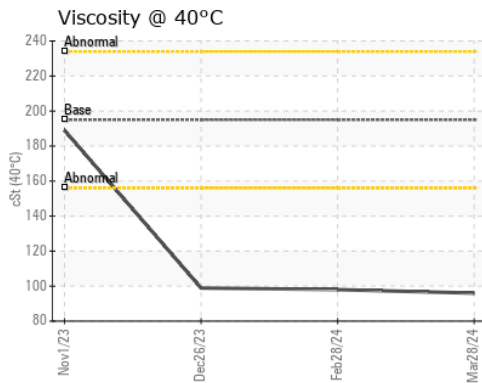
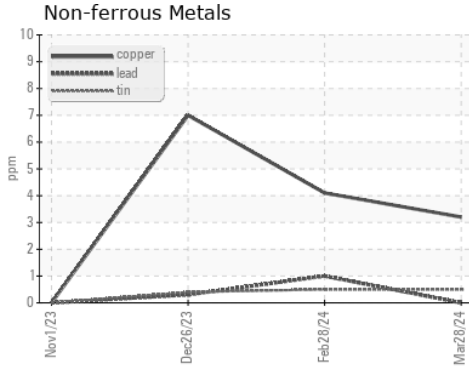
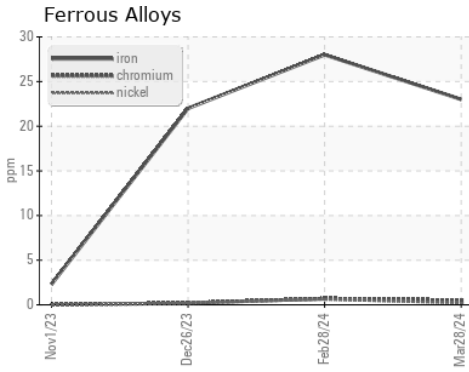


FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 195	96.0	98.0	98.9

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.** : WC0909680  
**Lab Number** : 06138898  
**Unique Number** : 10963706  
**Test Package** : CONST

**Received** : 04 Apr 2024  
**Tested** : 05 Apr 2024  
**Diagnosed** : 05 Apr 2024 - Wes Davis

**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: