



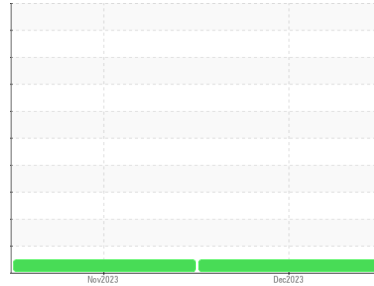
# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Area  
**MINING**  
Machine Id  
**ME-60 CATERPILLAR 982M MK800210**  
Component  
**Rear Differential**  
Fluid  
**CAT TDTO SAE 50 (22 GAL)**



## 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>WC0880657</b>	WC0866091	---
Sample Date	Client Info		<b>26 Dec 2023</b>	01 Nov 2023	---
Machine Age	hrs	Client Info	<b>10932</b>	0	---
Oil Age	hrs	Client Info	<b>2000</b>	1500	---
Oil Changed	Client Info		<b>Changed</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>21</b>	1	---
Chromium	ppm	ASTM D5185m	>3	<b>&lt;1</b>	0	---
Nickel	ppm	ASTM D5185m	>3	<b>&lt;1</b>	0	---
Titanium	ppm	ASTM D5185m	>2	<b>&lt;1</b>	0	---
Silver	ppm	ASTM D5185m	>2	<b>0</b>	0	---
Aluminum	ppm	ASTM D5185m	>30	<b>2</b>	<1	---
Lead	ppm	ASTM D5185m	>13	<b>&lt;1</b>	0	---
Copper	ppm	ASTM D5185m	>103	<b>13</b>	0	---
Tin	ppm	ASTM D5185m	>5	<b>&lt;1</b>	0	---
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	---
Cadmium	ppm	ASTM D5185m		<b>&lt;1</b>	0	---

## ADDITIVES

	method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m		<b>5</b>	3	---
Barium	ppm	ASTM D5185m		<b>7</b>	0	---
Molybdenum	ppm	ASTM D5185m		<b>2</b>	2	---
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	0	---
Magnesium	ppm	ASTM D5185m		<b>25</b>	29	---
Calcium	ppm	ASTM D5185m	2980	<b>3110</b>	2838	---
Phosphorus	ppm	ASTM D5185m	1100	<b>1010</b>	899	---
Zinc	ppm	ASTM D5185m	1270	<b>1267</b>	1214	---
Sulfur	ppm	ASTM D5185m		<b>8046</b>	7200	---

## CONTAMINANTS

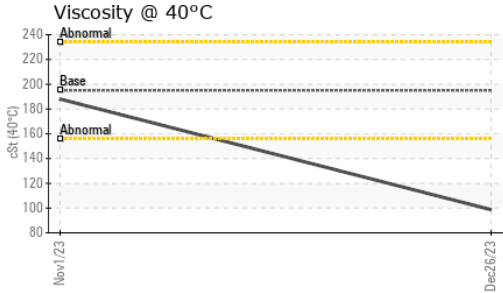
	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>100	<b>6</b>	7	---
Sodium	ppm	ASTM D5185m		<b>0</b>	2	---
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	0	---

## VISUAL

	method	limit/base	current	history1	history2	
White Metal	scalar	*Visual	NONE	<b>NONE</b>	LIGHT	---
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	---



# OIL ANALYSIS REPORT



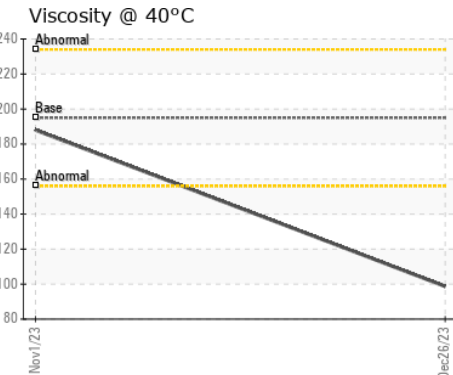
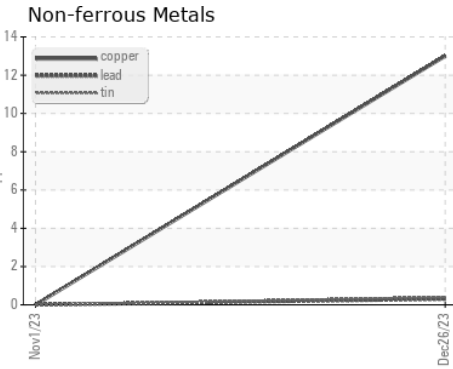
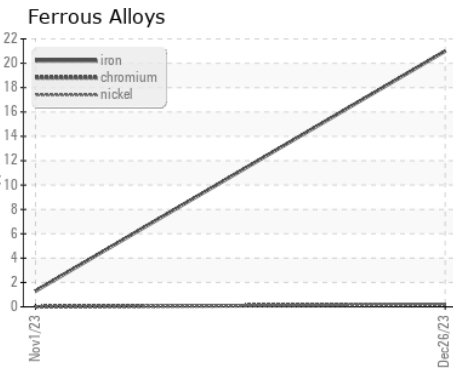
### FLUID PROPERTIES

method	limit/base	current	history1	history2	
Visc @ 40°C	cSt ASTM D445	195	<b>98.7</b>	188	---

### SAMPLE IMAGES

method	limit/base	current	history1	history2	
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.** : WC0880657      **Received** : 08 Jan 2024  
**Lab Number** : **06054378**      **Diagnosed** : 10 Jan 2024  
**Unique Number** : 10820327      **Diagnostician** : Jonathan Hester  
**Test Package** : CONST

**COVIA - CAMDEN**  
 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: