



# OIL ANALYSIS REPORT

Area  
**MINING**  
Machine Id  
**ME-032 CATERPILLAR 980M KRS03126**  
Component  
**Front Differential**  
Fluid  
**SHELL Spirax S4 CX 30 (--- GAL)**

## Sample Rating Trend



## VISCOSITY



### 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 oil viscosity is higher than normal. This plus the additive levels indicates the addition of a different brand, or type of oil. Confirm oil type.

SAMPLE INFORMATION	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>WC0928528</b>	---	---
Sample Date	Client Info		<b>17 May 2024</b>	---	---
Machine Age	hrs	Client Info	<b>11535</b>	---	---
Oil Age	hrs	Client Info	<b>0</b>	---	---
Oil Changed	Client Info		<b>N/A</b>	---	---
Sample Status			<b>ATTENTION</b>	---	---

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

WEAR METALS	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>500	<b>0</b>	---	---
Chromium	ppm	ASTM D5185m	>3	<b>0</b>	---	---
Nickel	ppm	ASTM D5185m	>3	<b>10</b>	---	---
Titanium	ppm	ASTM D5185m	>2	<b>0</b>	---	---
Silver	ppm	ASTM D5185m	>2	<b>&lt;1</b>	---	---
Aluminum	ppm	ASTM D5185m	>30	<b>4</b>	---	---
Lead	ppm	ASTM D5185m	>13	<b>0</b>	---	---
Copper	ppm	ASTM D5185m	>103	<b>&lt;1</b>	---	---
Tin	ppm	ASTM D5185m	>5	<b>0</b>	---	---
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	---	---
Cadmium	ppm	ASTM D5185m		<b>0</b>	---	---

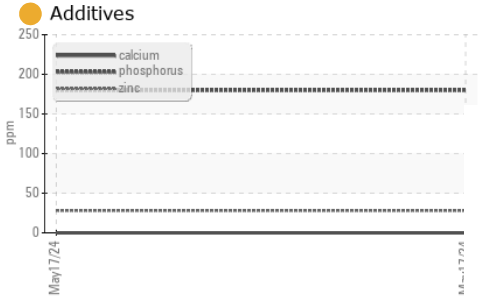
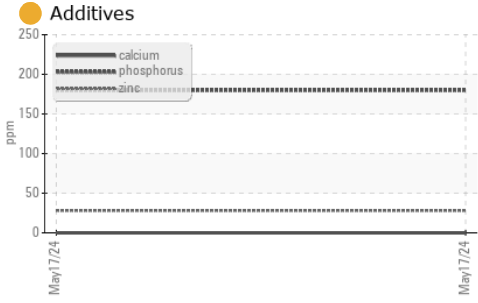
ADDITIVES	method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m		<b>0</b>	---	---
Barium	ppm	ASTM D5185m		<b>0</b>	---	---
Molybdenum	ppm	ASTM D5185m		<b>0</b>	---	---
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	---	---
Magnesium	ppm	ASTM D5185m		<b>5</b>	---	---
Calcium	ppm	ASTM D5185m		<b>0</b>	---	---
Phosphorus	ppm	ASTM D5185m		<b>180</b>	---	---
Zinc	ppm	ASTM D5185m		<b>28</b>	---	---
Sulfur	ppm	ASTM D5185m		<b>3258</b>	---	---

CONTAMINANTS	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>100	<b>0</b>	---	---
Sodium	ppm	ASTM D5185m		<b>14</b>	---	---
Potassium	ppm	ASTM D5185m	>20	<b>39</b>	---	---

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



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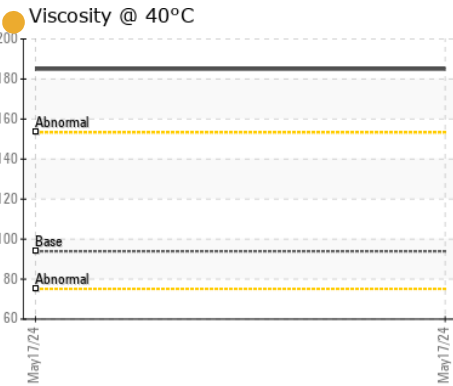
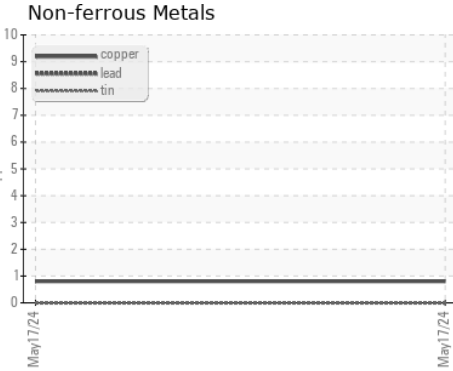
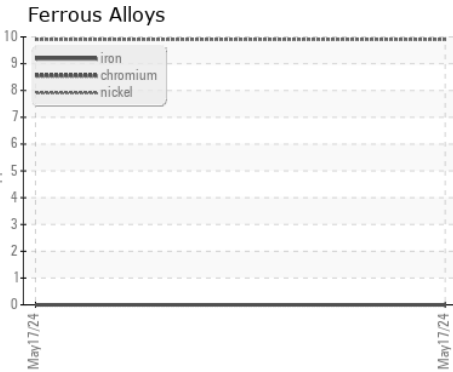
### FLUID PROPERTIES

	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	185	---	---

### SAMPLE IMAGES

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

### GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0928528  
**Lab Number** : 06201927  
**Unique Number** : 11069388  
**Test Package** : CONST

**Received** : 06 Jun 2024  
**Tested** : 07 Jun 2024  
**Diagnosed** : 10 Jun 2024 - Don Baldrige

**COVIA - PEVELY - 056**  
 2968 HIGHWAY Z  
 PEVELY, MO  
 US 63070-3260  
 Contact: Steve Bell  
 steve.bell@coviacorp.com  
 T: (870)214-7848  
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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)