

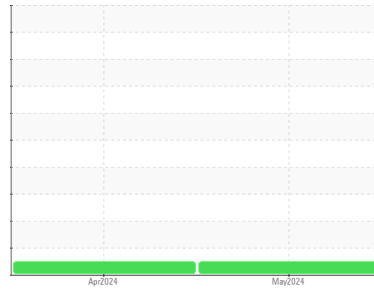


# OIL ANALYSIS REPORT



Area  
**MINING**  
Machine Id  
**ME-15 CATERPILLAR 980G MK700428**  
Component  
**Front Left Final Drive**  
Fluid  
**SHELL Spirax S4 CX 30 (--- 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>WC0927341</b>	WC0927325	---
Sample Date	Client Info			<b>07 May 2024</b>	04 Apr 2024	---
Machine Age	hrs	Client Info		<b>9245</b>	8774	---
Oil Age	hrs	Client Info		<b>9245</b>	0	---
Oil Changed	Client Info			<b>N/A</b>	N/A	---
Sample Status				<b>NORMAL</b>	NORMAL	---

CONTAMINATION		method	limit/base	current	history1	history2
Water	WC Method		>0.2	<b>NEG</b>	NEG	---

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>800	<b>65</b>	49	---
Chromium	ppm	ASTM D5185m	>10	<b>&lt;1</b>	1	---
Nickel	ppm	ASTM D5185m	>5	<b>0</b>	<1	---
Titanium	ppm	ASTM D5185m	>15	<b>&lt;1</b>	<1	---
Silver	ppm	ASTM D5185m	>2	<b>0</b>	0	---
Aluminum	ppm	ASTM D5185m	>75	<b>2</b>	2	---
Lead	ppm	ASTM D5185m	>10	<b>&lt;1</b>	<1	---
Copper	ppm	ASTM D5185m	>75	<b>2</b>	2	---
Tin	ppm	ASTM D5185m	>8	<b>&lt;1</b>	<1	---
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	---
Cadmium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	---

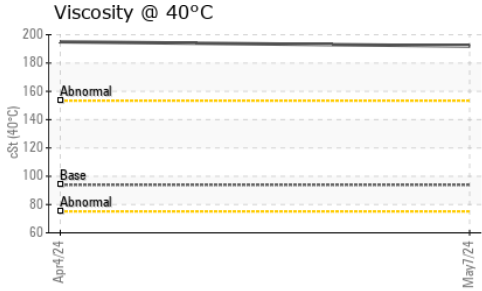
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		<b>2</b>	0	---
Barium	ppm	ASTM D5185m		<b>2</b>	<1	---
Molybdenum	ppm	ASTM D5185m		<b>8</b>	7	---
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	1	---
Magnesium	ppm	ASTM D5185m		<b>24</b>	24	---
Calcium	ppm	ASTM D5185m		<b>3221</b>	3162	---
Phosphorus	ppm	ASTM D5185m		<b>1162</b>	1147	---
Zinc	ppm	ASTM D5185m		<b>1288</b>	1293	---
Sulfur	ppm	ASTM D5185m		<b>9061</b>	9023	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>400	<b>13</b>	12	---
Sodium	ppm	ASTM D5185m		<b>0</b>	<1	---
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	2	---

VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
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	>0.2	<b>NEG</b>	NEG	---
Free Water	scalar	*Visual		<b>NEG</b>	NEG	---



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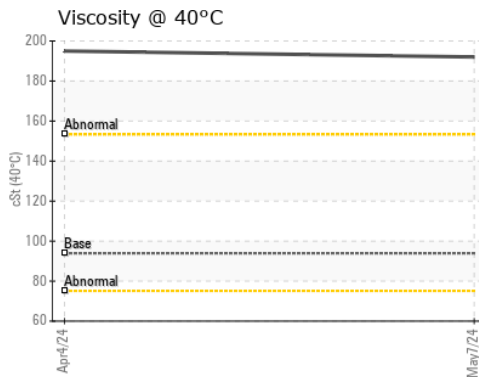
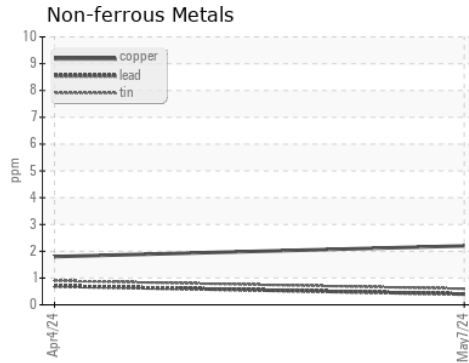
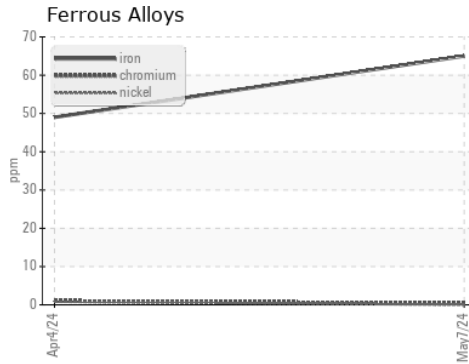


FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D445	93.9	<b>192</b>	195	---

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.** : WC0927341      **Received** : 10 May 2024  
**Lab Number** : **06175939**      **Tested** : 13 May 2024  
**Unique Number** : 11021992      **Diagnosed** : 13 May 2024 - Wes Davis  
**Test Package** : CONST

**COVIA - TUSCALOOSA - 096**  
 2400 CRABTREE ROAD  
 TUSCALOOSA, AL  
 US 35405  
 Contact: Daid Hutson  
 david.hutson@coviacorp.com  
 T: (731)441-3376  
 F:

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)