

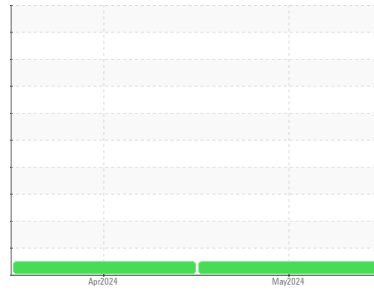


OIL ANALYSIS REPORT



Area
MINING
Machine Id
ME-15 CATERPILLAR 980G MK700428
Component
Front Differential
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			WC0927342	WC0927324	---
Sample Date	Client Info			07 May 2024	04 Apr 2024	---
Machine Age	hrs	Client Info		9245	8774	---
Oil Age	hrs	Client Info		9245	0	---
Oil Changed	Client Info			N/A	N/A	---
Sample Status				NORMAL	NORMAL	---

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

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>500	68	50	---
Chromium	ppm	ASTM D5185m	>3	<1	1	---
Nickel	ppm	ASTM D5185m	>3	<1	<1	---
Titanium	ppm	ASTM D5185m	>2	<1	<1	---
Silver	ppm	ASTM D5185m	>2	0	0	---
Aluminum	ppm	ASTM D5185m	>30	2	2	---
Lead	ppm	ASTM D5185m	>13	<1	<1	---
Copper	ppm	ASTM D5185m	>103	2	2	---
Tin	ppm	ASTM D5185m	>5	<1	1	---
Vanadium	ppm	ASTM D5185m		<1	<1	---
Cadmium	ppm	ASTM D5185m		<1	<1	---

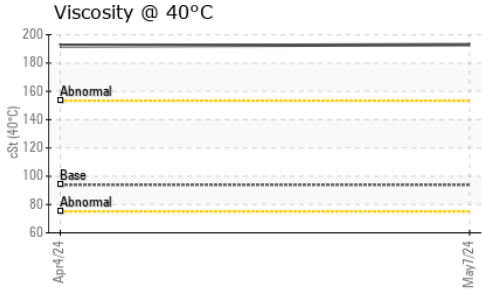
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		3	0	---
Barium	ppm	ASTM D5185m		2	<1	---
Molybdenum	ppm	ASTM D5185m		8	7	---
Manganese	ppm	ASTM D5185m		1	1	---
Magnesium	ppm	ASTM D5185m		23	25	---
Calcium	ppm	ASTM D5185m		3166	3195	---
Phosphorus	ppm	ASTM D5185m		1202	1191	---
Zinc	ppm	ASTM D5185m		1271	1324	---
Sulfur	ppm	ASTM D5185m		9787	9457	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>100	14	12	---
Sodium	ppm	ASTM D5185m		0	<1	---
Potassium	ppm	ASTM D5185m	>20	3	3	---

VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	NORML	---
Emulsified Water	scalar	*Visual	>.2	NEG	NEG	---
Free Water	scalar	*Visual		NEG	NEG	---



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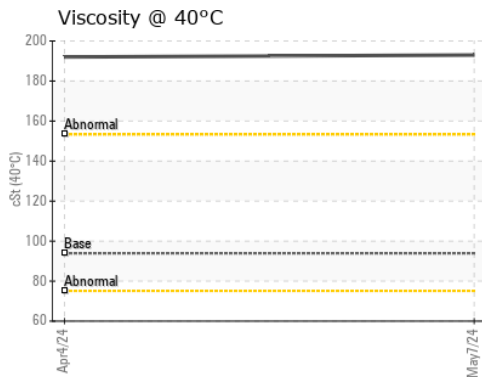
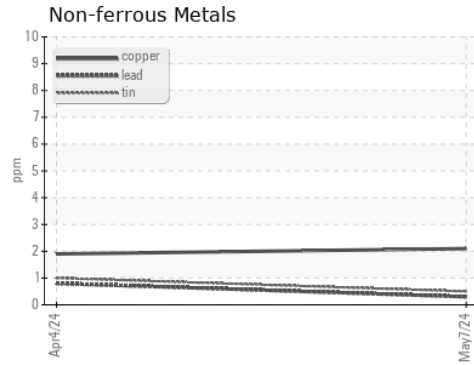
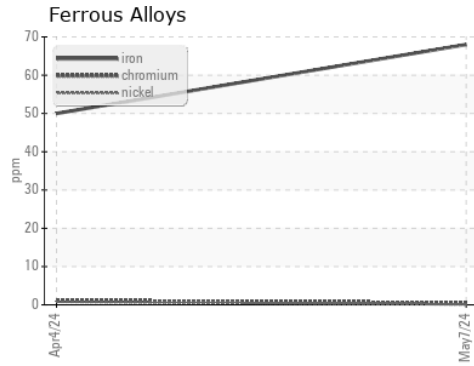


FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D445	93.9	193	192	---

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. : WC0927342 **Received** : 10 May 2024
Lab Number : **06175938** **Tested** : 13 May 2024
Unique Number : 11021991 **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)