



PROBLEM SUMMARY



Area
MINING
 Machine Id
ME-89 CATERPILLAR D6TLGP ZJB01369
 Component
Transmission
 Fluid
SHELL Spirax S4 CX 30 (--- GAL)

Sample Rating Trend

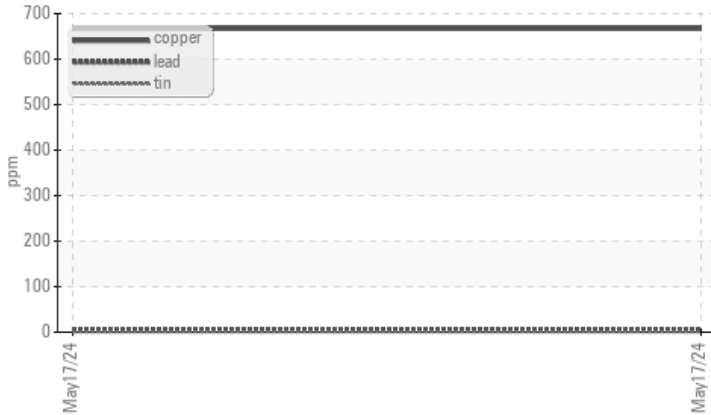


WEAR

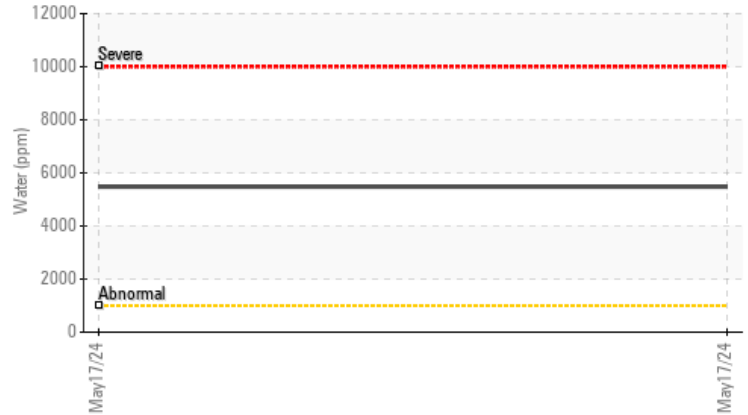


COMPONENT CONDITION SUMMARY

▲ Non-ferrous Metals



▲ Water (KF)



RECOMMENDATION

We advise that you check for the source of water entry. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS

Sample Status				SEVERE	---	---
Copper	ppm	ASTM D5185m	>200	▲ 667	---	---
Water	%	ASTM D6304	>0.1	▲ 0.548	---	---
ppm Water	ppm	ASTM D6304	>1000	▲ 5480	---	---

Customer Id: COVJUN
 Sample No.: WC0920500
 Lab Number: 06198070
 Test Package: CONST



To manage this report scan the QR code

To discuss the diagnosis or test data:
 Jonathan Hester +1 919-379-4092 x4092
jhester@wearcheckusa.com

To change component or sample information:
 Customer Service +1 1-800-237-1369
customerservice@wearcheck.com

RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Resample	---	---	?	We recommend an early resample to monitor this condition.
Check Water Access	---	---	?	We advise that you check for the source of water entry.

HISTORICAL DIAGNOSIS



OIL ANALYSIS REPORT



Area
MINING
 Machine Id
ME-89 CATERPILLAR D6TLGP ZJB01369
 Component
Transmission
 Fluid
SHELL Spirax S4 CX 30 (--- GAL)

Sample Rating Trend



WEAR



DIAGNOSIS

▲ Recommendation

We advise that you check for the source of water entry. We recommend an early resample to monitor this condition.

▲ Wear

The copper level is severe. Clutch disc wear or oil cooler leaching indicated.

▲ Contamination

Appearance is hazy. There is a moderate concentration of water present in the fluid.

Fluid Condition

The condition of the fluid is acceptable for the time in service.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC0920500	---	---
Sample Date	Client Info		17 May 2024	---	---
Machine Age	hrs	Client Info	10000	---	---
Oil Age	hrs	Client Info	0	---	---
Oil Changed	Client Info		N/A	---	---
Sample Status			SEVERE	---	---

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	96	---
Chromium	ppm	ASTM D5185m	>10	<1	---
Nickel	ppm	ASTM D5185m		0	---
Titanium	ppm	ASTM D5185m		7	---
Silver	ppm	ASTM D5185m		0	---
Aluminum	ppm	ASTM D5185m	>50	10	---
Lead	ppm	ASTM D5185m	>50	6	---
Copper	ppm	ASTM D5185m	>200	▲ 667	---
Tin	ppm	ASTM D5185m	>10	1	---
Vanadium	ppm	ASTM D5185m		<1	---
Cadmium	ppm	ASTM D5185m		0	---

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	---
Barium	ppm	ASTM D5185m		0	---
Molybdenum	ppm	ASTM D5185m		36	---
Manganese	ppm	ASTM D5185m		1	---
Magnesium	ppm	ASTM D5185m		9	---
Calcium	ppm	ASTM D5185m		1754	---
Phosphorus	ppm	ASTM D5185m		747	---
Zinc	ppm	ASTM D5185m		468	---
Sulfur	ppm	ASTM D5185m		4058	---

CONTAMINANTS

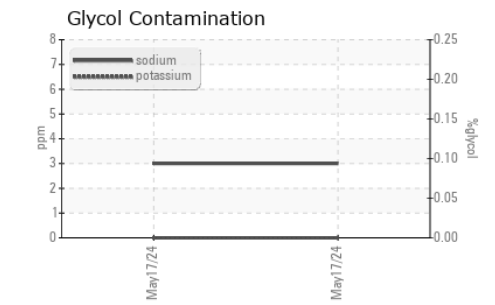
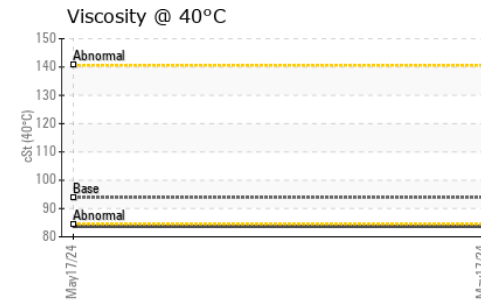
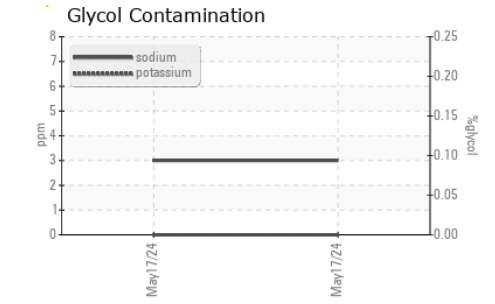
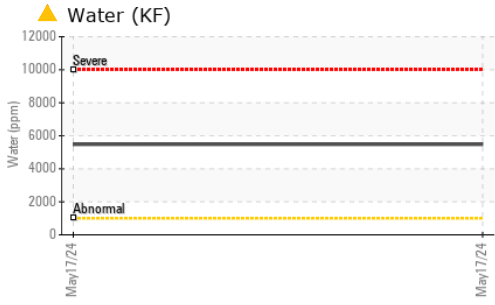
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	24	---
Sodium	ppm	ASTM D5185m		3	---
Potassium	ppm	ASTM D5185m	>20	0	---
Water	%	ASTM D6304	>0.1	▲ 0.548	---
ppm Water	ppm	ASTM D6304	>1000	▲ 5480	---

VISUAL

	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*Visual	NORML	● HAZY	---
Odor	scalar	*Visual	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.1	0.2%	---
Free Water	scalar	*Visual		NEG	---



OIL ANALYSIS REPORT

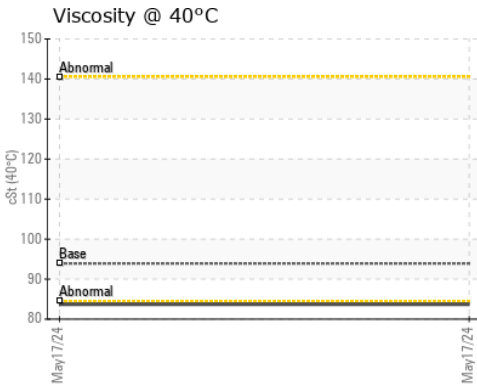
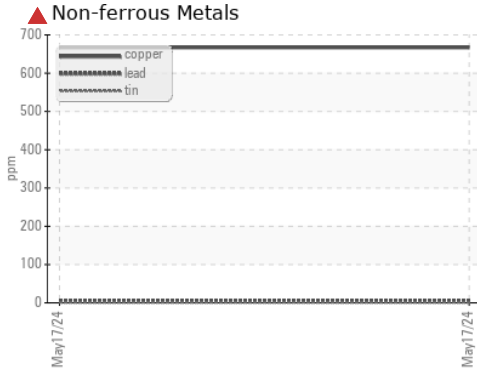
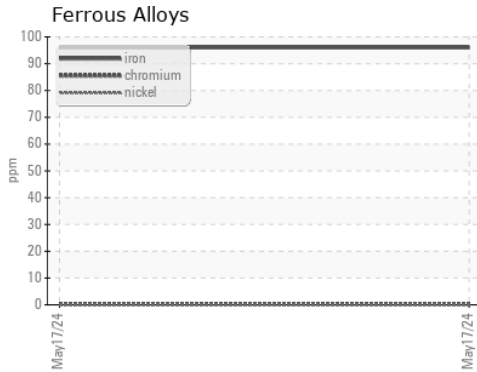


FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	93.9	83.7	---

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. : WC0920500 **Received** : 03 Jun 2024
Lab Number : 06198070 **Tested** : 05 Jun 2024
Unique Number : 11060193 **Diagnosed** : 05 Jun 2024 - Jonathan Hester
Test Package : CONST (Additional Tests: Glycol, KF)

COVIA - JUNCTION CITY - 095
 1333 SANDPIT ROAD
 MAUK, GA
 US 31058
 Contact: Phil Ivanisin
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 T: (478)244-7020
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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)