

# **OIL ANALYSIS REPORT**

Sample Rating Trend





MINING ME-15 CATERPILLAR 980G MK700428 Component Hydraulic System

SHELL Spirax S4 CX 10W (--- GAL)

#### DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor.

Area

#### Wear

All component wear rates are normal.

#### Contamination

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

### Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

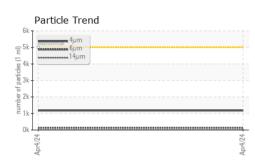
SAMPLE INFORM	1ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0927328		
Sample Date		Client Info		04 Apr 2024		
Machine Age	hrs	Client Info		8774		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				NORMAL		
CONTAMINATION	١	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	2		
Chromium	ppm	ASTM D5185m	>10	0		
Nickel	ppm	ASTM D5185m	>10	0		
Titanium	ppm	ASTM D5185m		<1		
Silver	ppm	ASTM D5185m		0		
Aluminum	ppm	ASTM D5185m	>10	<1		
Lead	ppm	ASTM D5185m	>10	0		
Copper	ppm	ASTM D5185m	>75	<1		
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		<1		
Barium	ppm	ASTM D5185m		0		
Molybdenum	ppm	ASTM D5185m		2		
Manganese	ppm	ASTM D5185m		<1		
Magnesium	ppm	ASTM D5185m		21		
Calcium	ppm	ASTM D5185m		243		
Phosphorus	ppm	ASTM D5185m		712		
Zinc	ppm	ASTM D5185m		910		
Sulfur	ppm	ASTM D5185m		2117		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	2		
Sodium	ppm	ASTM D5185m		<1		
Potassium	ppm	ASTM D5185m	>20	0		
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	1176		
Particles >6µm		ASTM D7647	>1300	130		
Particles >14µm		ASTM D7647	>160	8		
Particles >21µm		ASTM D7647	>40	2		
Particles >38µm		ASTM D7647	>10	0		
Particles >71µm		ASTM D7647	>3	0		
Oil Cleanliness		ISO 4406 (c)	>19/17/14	17/14/10		
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN) :46:32) Rev: 1	mg KOH/g	ASTM D8045		0.74	Submitted I	 By: Daid Hutson

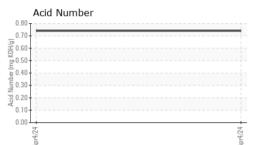
Report Id: COVTUS [WUSCAR] 06142982 (Generated: 04/10/2024 10:46:32) Rev: 1

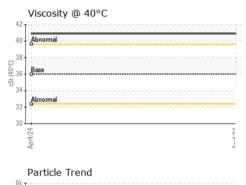
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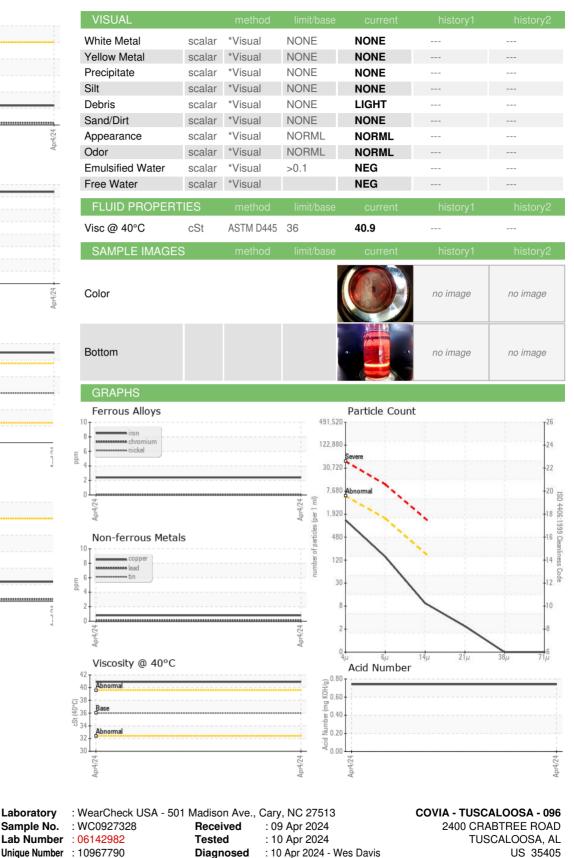
## **OIL ANALYSIS REPORT**











Unique Number : 10967790 Test Package : CONST Certificate 12367

Laboratory

Sample No.

- 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)

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