

OIL ANALYSIS REPORT

Sample Rating Trend

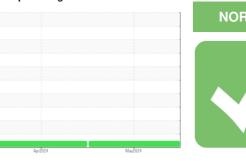
NORMAL



MINING ME-15 CATERPILLAR 980G MK700428

Hydraulic System

SHELL Spirax S4 CX 1





Recommendation

Resample at the next service interval to monitor.

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

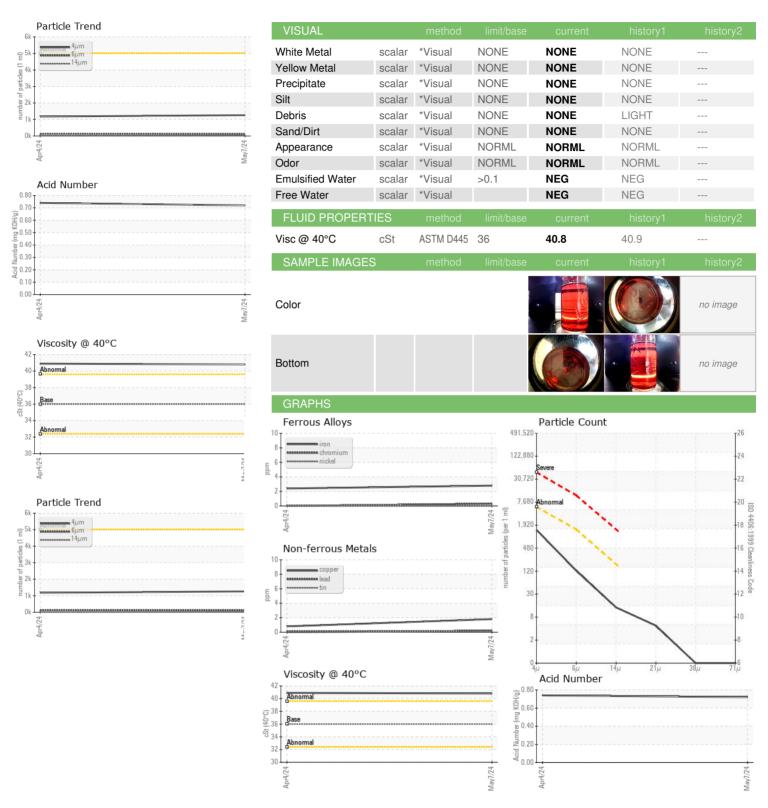
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

0W (GAL)			Apr2024	May2024		
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info	mmo sass	WC0927339	WC0927328	
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	1113	Client Info		N/A	N/A	
Sample Status		Olicit iiilo		NORMAL	NORMAL	
CONTAMINATIO	DN	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG	NEG	
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	3	2	
Chromium	ppm	ASTM D5185m	>10	<1	0	
Nickel	ppm	ASTM D5185m	>10	0	0	
Titanium	ppm	ASTM D5185m		<1	<1	
Silver	ppm	ASTM D5185m		0	0	
Aluminum	ppm	ASTM D5185m	>10	2	<1	
Lead	ppm	ASTM D5185m	>10	<1	0	
Copper	ppm	ASTM D5185m	>75	2	<1	
Tin	ppm	ASTM D5185m	>10	<1	<1	
Vanadium	ppm	ASTM D5185m		<1	<1	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		<1	<1	
Barium	ppm	ASTM D5185m		0	0	
Molybdenum	ppm	ASTM D5185m		2	2	
Manganese	ppm	ASTM D5185m		0	<1	
Magnesium	ppm	ASTM D5185m		23	21	
Calcium	ppm	ASTM D5185m		245	243	
Phosphorus	ppm	ASTM D5185m		770	712	
Zinc	ppm	ASTM D5185m		941	910	
Sulfur	ppm	ASTM D5185m		1930	2117	
CONTAMINANT	S	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	2	2	
Sodium	ppm	ASTM D5185m		0	<1	
Potassium	ppm	ASTM D5185m	>20	2	0	
FLUID CLEANLI	NESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	1264	1176	
Particles >6µm		ASTM D7647	>1300	109	130	
Particles >14µm		ASTM D7647	>160	12	8	
Particles >21µm		ASTM D7647	>40	4	2	
Particles >38µm		ASTM D7647	>10	0	0	
Particles >71μm		ASTM D7647	>3	0	0	
Oil Cleanliness		ISO 4406 (c)	>19/17/14	17/14/11	17/14/10	
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2

0.72



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Certificate 12367

Laboratory Sample No.

: WC0927339 Lab Number : 06175391 Unique Number : 11021444 Test Package : CONST

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 10 May 2024 **Tested** : 13 May 2024 Diagnosed

: 13 May 2024 - Wes Davis

To discuss this sample report, contact Customer Service at 1-800-237-1369.

US 35405 Contact: Daid Hutson david.hutson@coviacorp.com T: (731)441-3376

COVIA - TUSCALOOSA - 096

2400 CRABTREE ROAD

TUSCALOOSA, AL

 st - 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)