

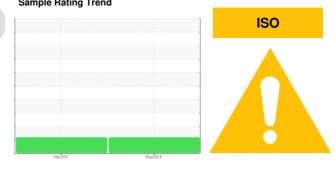
OIL ANALYSIS REPORT

Sample Rating Trend



Area **MINING** ME-41 CATERPILLAR 980M KRS02439 Hydraulic System

CAT TDTO 10W (43 GAL)



SAMPLE INFORM	VATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0910915	WC0880675	
Sample Date		Client Info		07 May 2024	05 Feb 2024	
Machine Age	hrs	Client Info		25677	25181	
Oil Age	hrs	Client Info		1000	500	
Oil Changed		Client Info		Not Changd	Changed	
Sample Status				ABNORMAL	ABNORMAL	
CONTAMINATIO	N	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	16	<1	
Chromium	ppm	ASTM D5185m	>10	2	0	
Nickel	ppm	ASTM D5185m	>10	0	0	
Titanium	ppm	ASTM D5185m		<1	0	
Silver	ppm	ASTM D5185m		0	0	
Aluminum	ppm	ASTM D5185m	>10	2	0	
Lead	ppm	ASTM D5185m	>10	<1	0	
Copper	ppm	ASTM D5185m	>75	3	<1	
Tin	ppm	ASTM D5185m	>10	<1	0	
Vanadium	ppm	ASTM D5185m		<1	0	
Cadmium	ppm	ASTM D5185m		<1	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	3	
Barium	ppm	ASTM D5185m		2	0	
Molybdenum	ppm	ASTM D5185m		1	<1	
Manganese	ppm	ASTM D5185m		<1	<1	
Magnesium	ppm	ASTM D5185m		8	41	
Calcium	ppm	ASTM D5185m	2980	193	285	
Phosphorus	ppm	ASTM D5185m	1100	858	767	
Zinc	ppm	ASTM D5185m	1270	962	966	
Sulfur	ppm	ASTM D5185m		1968	1960	
CONTAMINANTS	6	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	4	<1	
Sodium	ppm	ASTM D5185m		0	<1	
Potassium	ppm	ASTM D5185m	>20	3	0	
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	A 21038	▲ 33959	
Particles >6µm		ASTM D7647	>1300	<u> </u>	1477	
Particles >14µm		ASTM D7647	>160	44	33	
Particles >21µm		ASTM D7647	>40	11	6	
Particles >38µm		ASTM D7647	>10	1	0	
Particles >71µm		ASTM D7647	>3	0	0	
Oil Cleanliness		ISO 4406 (c)	>19/17/14	22/18/13	▲ 22/18/12	
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.87	0.90	
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Recommendation

DIAGNOSIS

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is a high amount of silt (particulates < 14 microns in size) present in the oil.

Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

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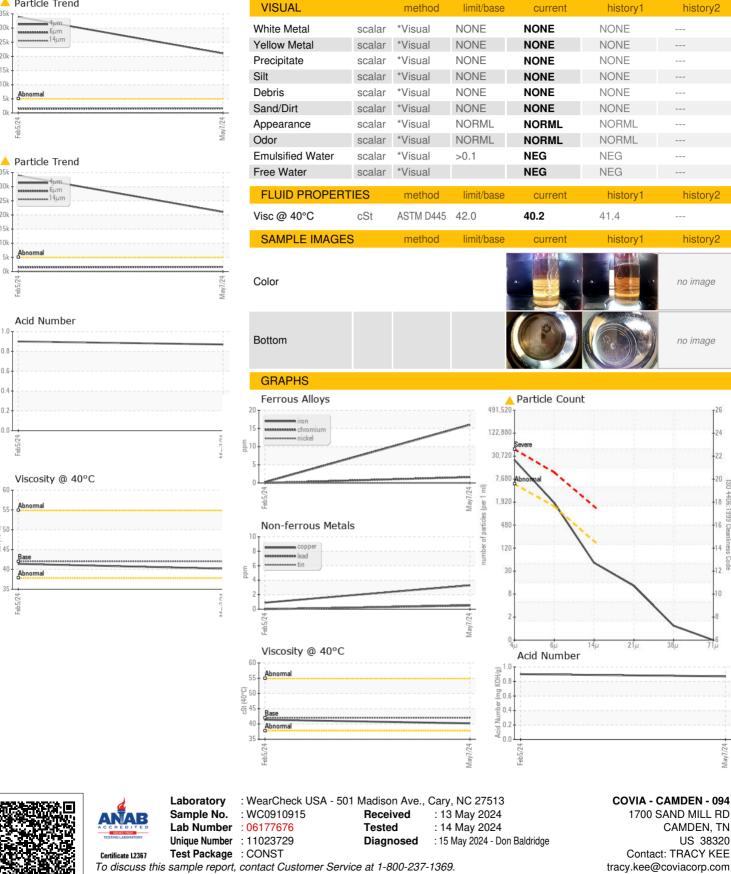
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OIL ANALYSIS REPORT



* - 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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Contact/Location: TRACY KEE - COVCAMTN

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