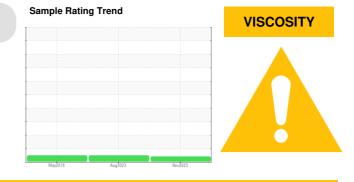


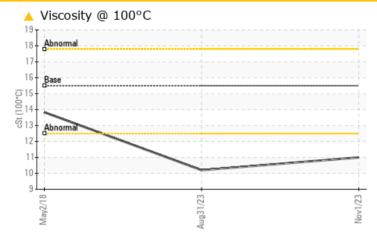
PROBLEM SUMMARY

ME-60 CATERPILLAR 982M MK800210

CAT DIESEL ENGINE OIL 15W40 (10 GAL)



COMPONENT CONDITION SUMMARY



Area MINING

Component Diesel Engine

Fluid

RECOMMENDATION

Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS									
Sample Status				ATTENTION	NORMAL	NORMAL			
Visc @ 100°C	cSt	ASTM D445	15.5	<u> </u>	10.2	13.83			

Customer Id: COVCAMTN Sample No.: WC0866087 Lab Number: 06000322 Test Package: CONST



To manage this report scan the QR code

To discuss the diagnosis or test data: Don Baldridge +1 <u>don.b505@comcast.net</u>

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

RECOMMENDED ACTIONS

There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS

31 Aug 2023 Diag: Wes Davis



Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.





Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.





OIL ANALYSIS REPORT

Sample Rating Trend VISCOSITY



Area MINING ME-60 CATERPILLAR 982M MK800210 Component

Diesel Engine Fluid

CAT DIESEL ENGINE OIL 15W40 (10 GAL)

		(,		ry2018	Aug2023 Nov2023		
DIAGNOSIS	SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Recommendation	Sample Number		Client Info		WC0866087	WC0850307	WCMC175351
Resample at the next service interval to monitor.	Sample Date		Client Info		01 Nov 2023	31 Aug 2023	02 May 2018
Vear	Machine Age	hrs	Client Info		0	9302	9862
Il component wear rates are normal.	Oil Age	hrs	Client Info		500	0	0
ontamination	Oil Changed		Client Info		N/A	Changed	N/A
uel content negligible. There is no indication of	Sample Status				ATTENTION	NORMAL	NORMAL
ny contamination in the oil. Fluid Condition	CONTAMINATIO	N	method	limit/base	current	history1	history2
e oil viscosity is lower than normal. The BN result	Glycol		WC Method		NEG	NEG	NEG
dicates that there is suitable alkalinity remaining in e oil. Confirm oil type.	WEAR METALS		method	limit/base		history1	history2
	Iron	ppm	ASTM D5185m		12	32	17
	Chromium	ppm	ASTM D5185m		<1	<1	<1
	Nickel	ppm	ASTM D5185m		<1	0	<1
	Titanium	ppm	ASTM D5185m		<1	<1	0
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m		2	0	2
	Lead	ppm	ASTM D5185m		<1	2	1
	Copper	ppm	ASTM D5185m		<1	10	4
	Tin	ppm	ASTM D5185m	>15	0	<1	0
	Antimony	ppm	ASTM D5185m				20
	Vanadium	ppm	ASTM D5185m		0	0	0
	Cadmium	ppm	ASTM D5185m		<1	0	0
	ADDITIVES		method	limit/base	current	history1	history2
	Boron	ppm	ASTM D5185m		61	11	10
	Barium	ppm	ASTM D5185m		5	0	0
	Molybdenum	ppm	ASTM D5185m		44	45	50
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m		482	500	810
	Calcium	ppm	ASTM D5185m		1653	1732	1057
	Phosphorus	ppm	ASTM D5185m		948	901	863
	Zinc	ppm	ASTM D5185m	1460	1116	1121	1040
	Sulfur	ppm	ASTM D5185m		2824	3232	2319
	CONTAMINANTS	S	method	limit/base		history1	history2
	Silicon	ppm	ASTM D5185m	>25	5	8	4
	Sodium	ppm	ASTM D5185m		0	26	3
	Potassium	ppm	ASTM D5185m		2	2	4
	Fuel	%	ASTM D3524	>5	0.1	<1.0	<1.0
	INFRA-RED		method	limit/base	current	history1	history2
	Soot %	%	*ASTM D7844	>3	0.3	0.8	0.4
	Nitration	Abs/cm	*ASTM D7624	>20	6.3	10.6	10.
	Sulfation	Abs/.1mm	*ASTM D7415	>30	22.2	23.3	23.
	FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
	Oxidation	Abs/.1mm	*ASTM D7414	>25	19.8	22.1	19.
	D	1/011/	LOTIL DOGO				

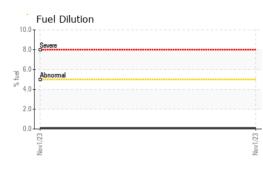
Base Number (BN) mg KOH/g ASTM D2896 11.3

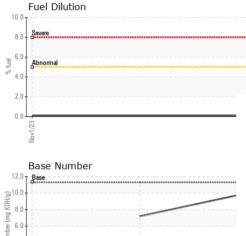
7.2

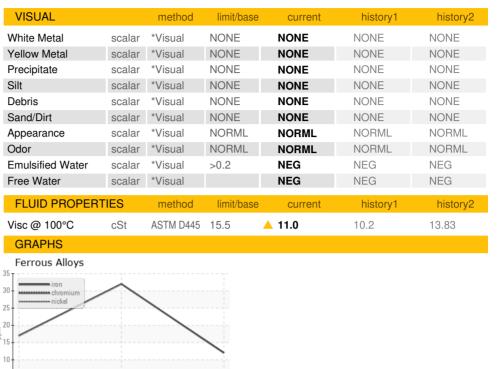
10.0

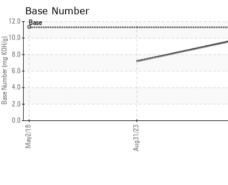


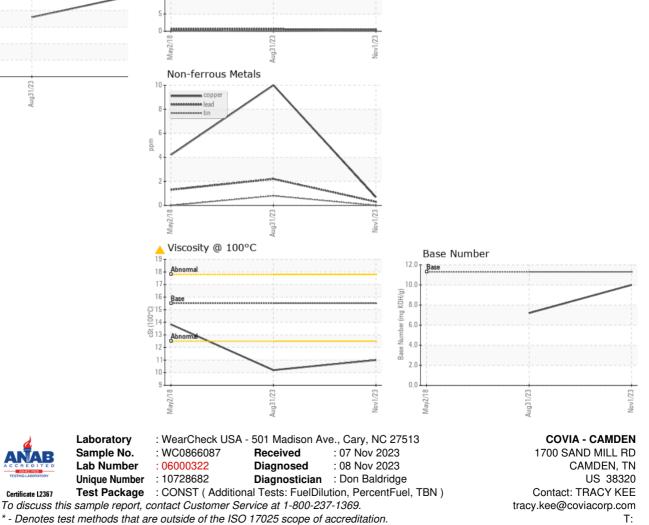
OIL ANALYSIS REPORT











Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Certificate L2367

F: