

OIL ANALYSIS REPORT

Sample Rating Trend



MINING ME-66 CATERPILLAR 980M MK700460 Rear Differential

CAT TDTO 30W (--- GAL)

VISCOSITY

SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0950849	WC0910920	WC0909664
Sample Date		Client Info		17 Jun 2024	07 May 2024	12 Mar 2024
Machine Age	hrs	Client Info		6540	6064	5546
Oil Age	hrs	Client Info		1000	500	2000
Oil Changed		Client Info		N/A	Not Changd	N/A
Sample Status				ATTENTION	ATTENTION	NORMAL
CONTAMINATION	N	method	limit/base	current	history1	history2
Water		WC Method	>.2	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>500	17	12	52
Chromium	ppm	ASTM D5185m	>3	0	<1	<1
Nickel	ppm	ASTM D5185m	>3	0	0	<1
Titanium	ppm	ASTM D5185m	>2	<1	<1	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>30	2	<1	3
Lead	ppm	ASTM D5185m	>13	0	0	0
Copper	ppm	ASTM D5185m	>103	4	<1	10
Tin	ppm	ASTM D5185m	>5	<1	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		7	3	2
Barium	ppm	ASTM D5185m		0	1	0
Molybdenum	ppm	ASTM D5185m		1	0	2
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		28	27	22
Calcium	ppm	ASTM D5185m	2980	3030	2899	2781
Phosphorus	ppm	ASTM D5185m	1100	1101	1067	926
Zinc	ppm	ASTM D5185m	1270	1297	1244	1180
Sulfur	ppm	ASTM D5185m		8980	8439	5996
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>100	7	6	8
Sodium	ppm	ASTM D5185m		2	1	0
Potassium	ppm	ASTM D5185m	> 20		0	2
	ppm	ASTIVI DSTOSIII	>20	2	0	
VISUAL	ppm	method	limit/base	2 current	0 history1	history2
VISUAL White Metal	scalar					history2 NONE
		method	limit/base	current	history1	
White Metal	scalar	method *Visual	limit/base NONE	current NONE	history1 NONE	NONE
White Metal Yellow Metal	scalar scalar	method *Visual *Visual	limit/base NONE NONE	current NONE NONE	history1 NONE NONE	NONE NONE
White Metal Yellow Metal Precipitate	scalar scalar scalar	method *Visual *Visual *Visual	limit/base NONE NONE NONE	current NONE NONE NONE	history1 NONE NONE NONE	NONE NONE NONE
White Metal Yellow Metal Precipitate Silt	scalar scalar scalar scalar	method *Visual *Visual *Visual *Visual	limit/base NONE NONE NONE NONE	ourrent NONE NONE NONE NONE	history1 NONE NONE NONE NONE	NONE NONE NONE NONE
White Metal Yellow Metal Precipitate Silt Debris	scalar scalar scalar scalar scalar	method *Visual *Visual *Visual *Visual *Visual	limit/base NONE NONE NONE NONE	OUTTENT NONE NONE NONE NONE NONE	history1 NONE NONE NONE NONE NONE	NONE NONE NONE NONE
White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt	scalar scalar scalar scalar scalar scalar	method *Visual *Visual *Visual *Visual *Visual *Visual	limit/base NONE NONE NONE NONE NONE	Current NONE NONE NONE NONE NONE	history1 NONE NONE NONE NONE NONE NONE	NONE NONE NONE NONE NONE
White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt Appearance	scalar scalar scalar scalar scalar scalar scalar	method *Visual *Visual *Visual *Visual *Visual *Visual *Visual	limit/base NONE NONE NONE NONE NONE NORML	Current NONE NONE NONE NONE NONE NORML	history1 NONE NONE NONE NONE NONE NONE NORML	NONE NONE NONE NONE NORML

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

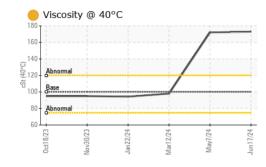
Fluid Condition

The oil viscosity is higher than normal. The condition of the oil is acceptable for the time in service.

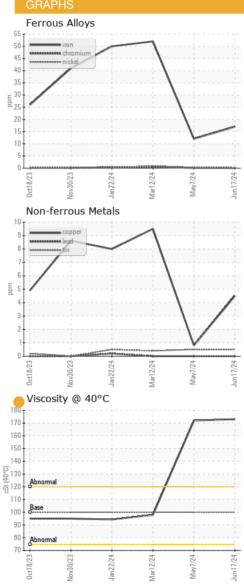
Contact/Location: TRACY KEE - COVCAMTN



OIL ANALYSIS REPORT



Visc @ 40°C cSt ASTM D445 100 SAMPLE IMAGES method limit/ Color Image: Color Image: Color	173 172 98.0 /base current history1 history
	/base current history1 history
Color	
	no image no image no image
Bottom	no image no image no image





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