

# **OIL ANALYSIS REPORT**

## Sample Rating Trend

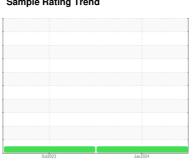
## **NORMAL**



CATERPILLAR 980M 6161 (S/N MK210767)

Component Transmission (Manual)

TULCO LUBSOIL TO-4 30 (--- GAL)





### Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the fluid.

## **Fluid Condition**

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

` '			0ct2023	Jan2024		
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		TO10003031	TO10002788	
Sample Date		Client Info		26 Jan 2024	18 Oct 2023	
Machine Age	hrs	Client Info		8990	8534	
Oil Age	hrs	Client Info		756	300	
Oil Changed		Client Info		Changed	Not Changd	
Sample Status				NORMAL	NORMAL	
CONTAMINATIO	N	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG	NEG	
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184	>95	15	11	
Iron	ppm	ASTM D5185m	>200	9	14	
Chromium	ppm	ASTM D5185m	>5	<1	<1	
Nickel	ppm	ASTM D5185m	>5	0	0	
Titanium	ppm	ASTM D5185m		<1	0	
Silver	ppm	ASTM D5185m	>7	0	0	
Aluminum	ppm	ASTM D5185m	>25	1	1	
Lead	ppm	ASTM D5185m	>45	15	0	
Copper	ppm	ASTM D5185m	>225	97	5	
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		<1	2	
Barium	ppm	ASTM D5185m		0	0	
Molybdenum	ppm	ASTM D5185m		2	<1	
Manganese	ppm	ASTM D5185m		<1	<1	
Magnesium	ppm	ASTM D5185m	9	27	25	
Calcium	ppm	ASTM D5185m	4500	2862	2950	
Phosphorus	ppm	ASTM D5185m	1150	960	1025	
Zinc	ppm	ASTM D5185m	1250	1087	1231	
Sulfur	ppm	ASTM D5185m	4500	5275	5616	
CONTAMINANT	S	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>125	9	6	
Sodium	ppm	ASTM D5185m		3	1	
Potassium	ppm	ASTM D5185m	>20	0	<1	
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
	1/011/	AOTH Doc :-	0.00			

0.87

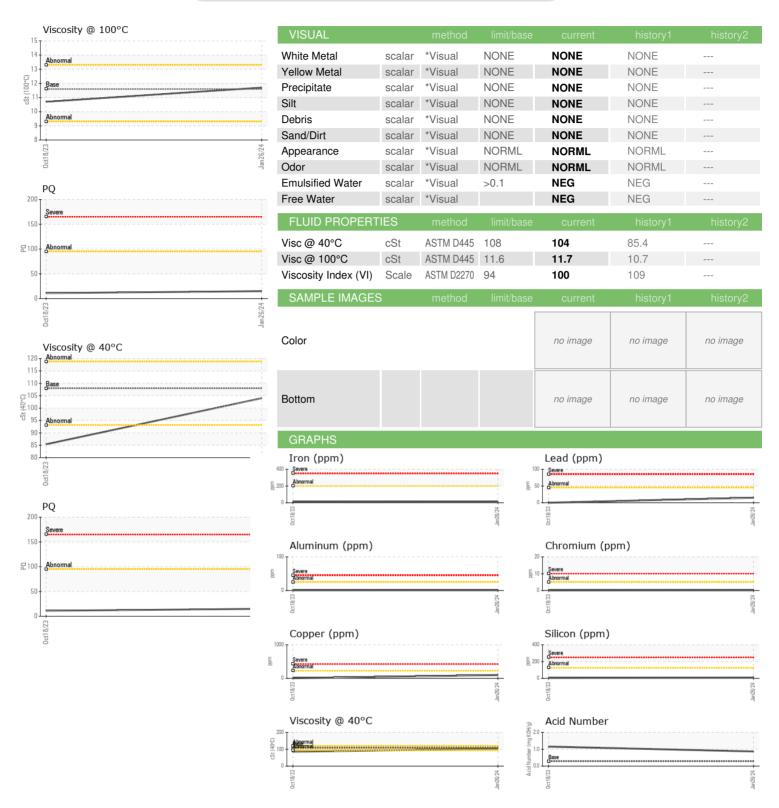
Acid Number (AN)

mg KOH/g ASTM D8045 0.28

1.16



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Certificate L2367

Laboratory Sample No. Lab Number **Unique Number** 

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : TO10003031 Recieved : 31 Jan 2024 : 06076426 Diagnosed : 01 Feb 2024 : 10858517 Diagnostician : Wes Davis

Test Package : MOB 2 ( Additional Tests: KV100, PQ, VI )

\* - 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)

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

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