

OIL ANALYSIS REPORT

Sample Rating Trend

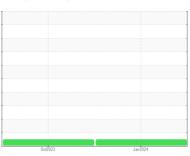
NORMAL



CATERPILLAR 980M 6161 (S/N MK210767)

Component Rear Differential

TULCO LUBSOIL TO-4 50 (--- GAL)





DIAGNOSIS

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

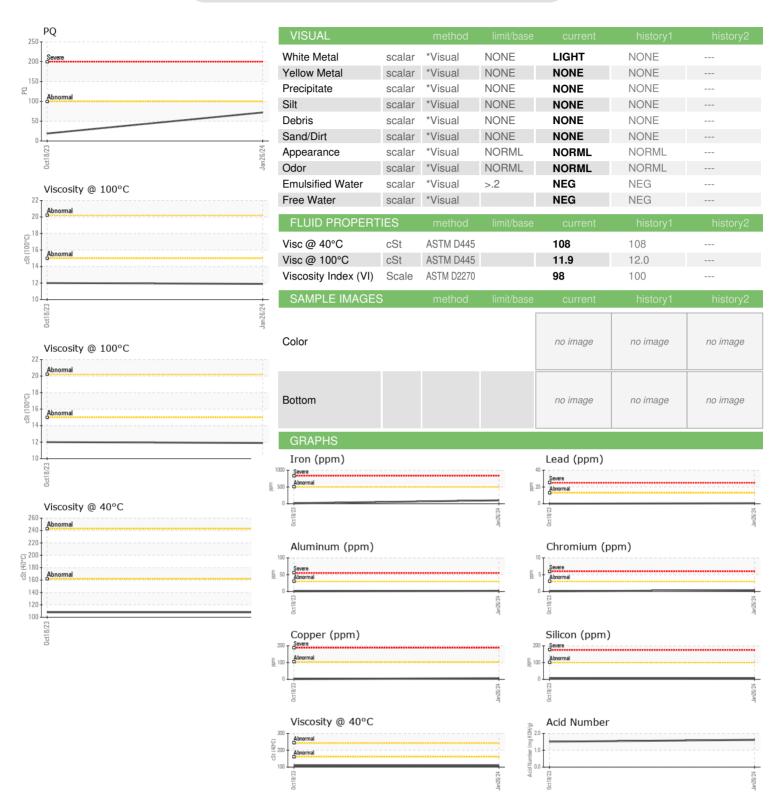
Fluid Condition

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

1 50 (GAL)			Oct2023	Jan 2024		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		TO10003035	TO10002790	
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		Not Changd	Not Changd	
Sample Status				NORMAL	NORMAL	
CONTAMINATIO	N	method	limit/base	current	history1	history2
Water		WC Method	>.2	NEG	NEG	
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184		72	19	
Iron	ppm	ASTM D5185m	>500	100	14	
Chromium	ppm	ASTM D5185m	>3	<1	<1	
Nickel	ppm	ASTM D5185m	>3	0	0	
Titanium	ppm	ASTM D5185m	>2	<1	0	
Silver	ppm	ASTM D5185m	>2	0	0	
Aluminum	ppm	ASTM D5185m	>30	2	<1	
Lead	ppm	ASTM D5185m	>13	<1	0	
Copper	ppm	ASTM D5185m	>103	7	2	
Tin	ppm	ASTM D5185m	>5	<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	0	
Barium	ppm	ASTM D5185m		0	0	
Molybdenum	ppm	ASTM D5185m		3	1	
Manganese	ppm	ASTM D5185m		1	<1	
Magnesium	ppm	ASTM D5185m		28	28	
Calcium	ppm	ASTM D5185m		2846	2982	
Phosphorus	ppm	ASTM D5185m		1045	1016	
Zinc	ppm	ASTM D5185m		1189	1249	
Sulfur	ppm	ASTM D5185m		6286	6427	
CONTAMINANTS	3	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>100	8	7	
Sodium	ppm	ASTM D5185m		<1	0	
Potassium	ppm	ASTM D5185m	>20	0	<1	
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		1.62	1.51	



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Certificate L2367

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

: TO10003035 : 06076419 : 10858510

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 31 Jan 2024 Diagnosed

: 02 Feb 2024 Diagnostician : Don Baldridge

Test Package : MOB 2 (Additional Tests: KV100, PQ, VI) To discuss this sample report, contact Customer Service at 1-800-237-1369.

* - 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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