

# **OIL ANALYSIS REPORT**

### Sample Rating Trend

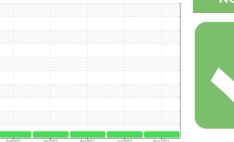
# NORMAL



CATERPILLAR 980M 6141 (S/N KRS00885) Component

**Front Differential** 

**TULCO LUBSOIL TO-4 50 (3 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 Condition**

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

,		0ct2022	Jan2023	Apr2023 Jun2023	Aug2023	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		TO10002469	TO10002344	TO10002135
Sample Date		Client Info		22 Aug 2023	13 Jun 2023	03 Apr 2023
Machine Age	hrs	Client Info		11855	11371	10847
Oil Age	hrs	Client Info		2053	1569	1045
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATION		method	limit/base	current	history1	history2
Water		WC Method	>.2	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184		155	117	61
Iron	ppm	ASTM D5185m	>500	287	181	56
Chromium	ppm	ASTM D5185m	>3	<1	<1	<1
Nickel	ppm	ASTM D5185m	>3	<1	<1	<1
Titanium	ppm	ASTM D5185m	>2	<1	<1	0
Silver	ppm	ASTM D5185m	>2	<1	0	0
Aluminum	ppm	ASTM D5185m	>30	4	2	<1
Lead	ppm	ASTM D5185m	>13	<1	0	0
Copper	ppm	ASTM D5185m	>103	14	8	3
Tin	ppm	ASTM D5185m	>5	0	0	0
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		0	2	1
Barium	ppm	ASTM D5185m		1	2	0
Molybdenum	ppm	ASTM D5185m		3	2	2
Manganese	ppm	ASTM D5185m		3	2	<1
Magnesium	ppm	ASTM D5185m		19	18	15
Calcium	ppm	ASTM D5185m		3177	2944	2596
Phosphorus	ppm	ASTM D5185m		1008	955	837
Zinc	ppm	ASTM D5185m		1261	1168	1037
Sulfur	ppm	ASTM D5185m		5642	5088	3752
CONTAMINANT	S	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>100	16	14	12
Sodium	ppm	ASTM D5185m		0	0	<1
Potassium	ppm	ASTM D5185m	>20	2	1	1
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
A -! -! Altronals - or (AAI)		AOTA DOC 45		0.00	4.04	4.00

0.86

Acid Number (AN)

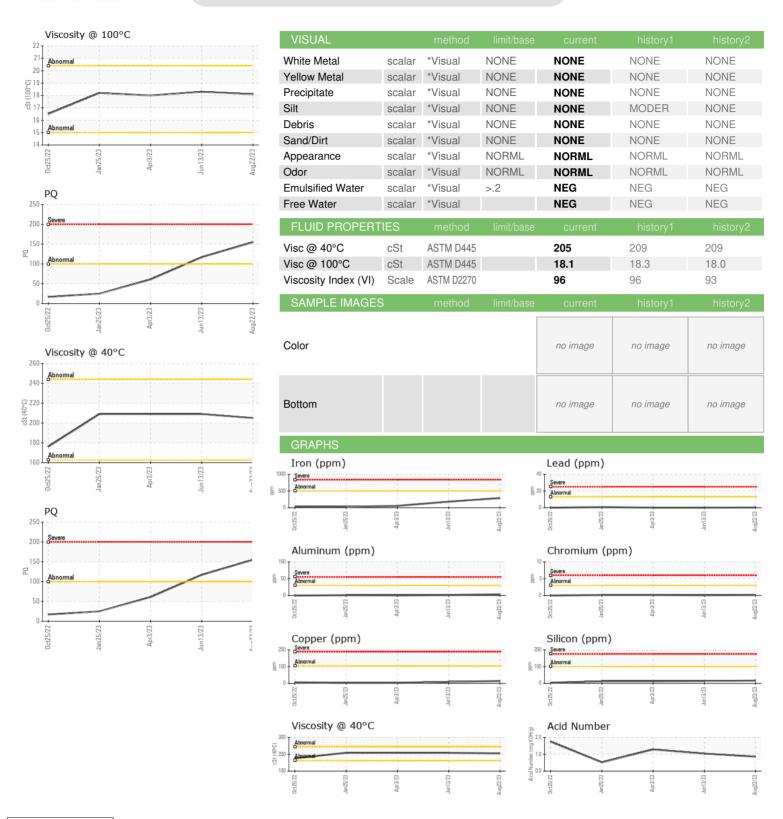
mg KOH/g ASTM D8045

1.04

1.29



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Certificate L2367

Laboratory Sample No. Lab Number

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : TO10002469 : 05935602

Unique Number: 10620873 Test Package: MOB 2 (Additional Tests: KV100, PQ, VI)

Received : 25 Aug 2023 **Tested** : 28 Aug 2023 Diagnosed

: 28 Aug 2023 - Wes Davis

**ANCHOR STONE TULSA ROCK** TULSA ROCK QUARRY, 66TH ST N 145TH AVENUE

TULSA, OK US 74137

> Contact: MIKE SNYDER msnyder@anchorstoneco.com

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. T: (417)850-9635 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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