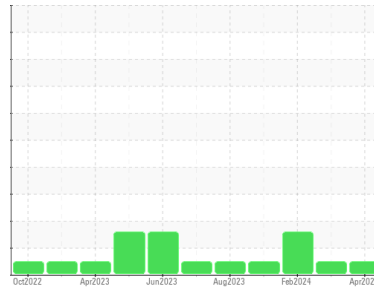


# OIL ANALYSIS REPORT



Machine Id  
**CATERPILLAR 980M 6141 (S/N KRS00885)**  
Component  
**Rear Left Final Drive**  
Fluid  
**TULCO LUBSOIL TO-4 50 (3 GAL)**

Sample Rating Trend



**NORMAL**

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

**SAMPLE INFORMATION**

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>TO10003322</b>	TO10003373	TO10002967
Sample Date	Client Info		<b>08 Apr 2024</b>	04 Mar 2024	01 Feb 2024
Machine Age	hrs	Client Info	<b>13425</b>	13158	12901
Oil Age	hrs	Client Info	<b>267</b>	1685	1428
Oil Changed	Client Info		<b>Not Chngd</b>	Changed	Not Chngd
Sample Status			<b>NORMAL</b>	NORMAL	ABNORMAL

**CONTAMINATION**

	method	limit/base	current	history1	history2
Water	WC Method	>0.2	<b>NEG</b>	NEG	NEG

**WEAR METALS**

	method	limit/base	current	history1	history2	
PQ	ASTM D8184	>500	<b>60</b>	422	471	
Iron	ppm	ASTM D5185m	>800	<b>51</b>	549	▲ 949
Chromium	ppm	ASTM D5185m	>10	<b>0</b>	<1	<1
Nickel	ppm	ASTM D5185m	>5	<b>0</b>	<1	0
Titanium	ppm	ASTM D5185m	>15	<b>0</b>	<1	0
Silver	ppm	ASTM D5185m	>2	<b>0</b>	<1	0
Aluminum	ppm	ASTM D5185m	>75	<b>&lt;1</b>	8	10
Lead	ppm	ASTM D5185m	>10	<b>0</b>	3	0
Copper	ppm	ASTM D5185m	>75	<b>5</b>	52	▲ 82
Tin	ppm	ASTM D5185m	>8	<b>0</b>	1	0
Vanadium	ppm	ASTM D5185m		<b>0</b>	<1	0
Cadmium	ppm	ASTM D5185m		<b>0</b>	<1	0

**ADDITIVES**

	method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m		<b>0</b>	<1	2
Barium	ppm	ASTM D5185m		<b>0</b>	0	5
Molybdenum	ppm	ASTM D5185m		<b>0</b>	<1	0
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	6	8
Magnesium	ppm	ASTM D5185m		<b>8</b>	14	23
Calcium	ppm	ASTM D5185m		<b>2901</b>	2752	4524
Phosphorus	ppm	ASTM D5185m		<b>817</b>	881	1316
Zinc	ppm	ASTM D5185m		<b>1010</b>	985	1739
Sulfur	ppm	ASTM D5185m		<b>4658</b>	4903	7876

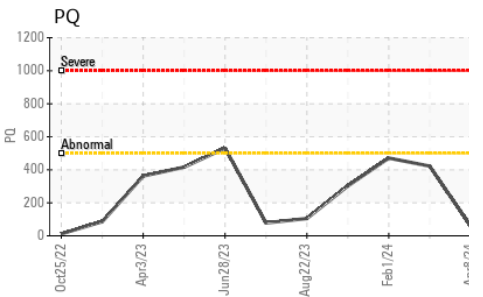
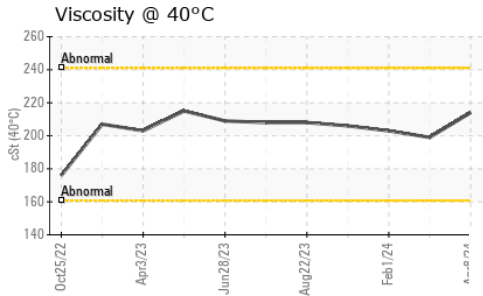
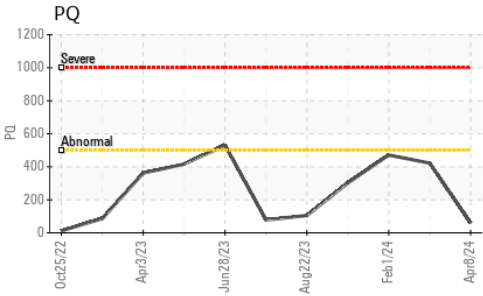
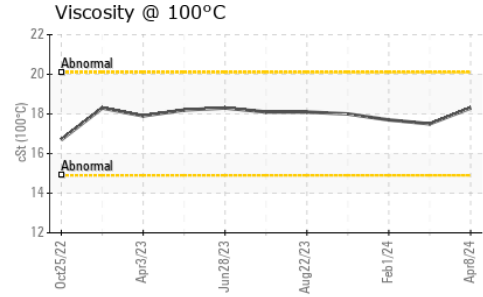
**CONTAMINANTS**

	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>400	<b>11</b>	15	25
Sodium	ppm	ASTM D5185m		<b>6</b>	5	0
Potassium	ppm	ASTM D5185m	>20	<b>0</b>	3	3

**FLUID DEGRADATION**

	method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D8045		<b>1.19</b>	0.56	0.52

# OIL ANALYSIS REPORT

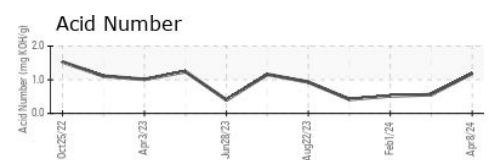
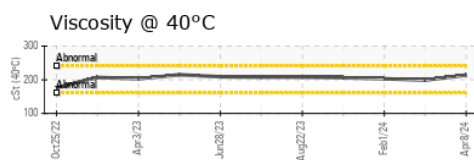
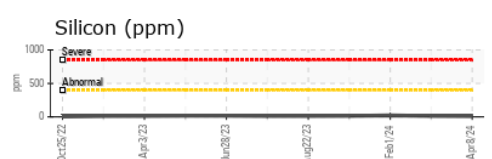
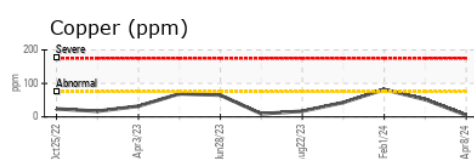
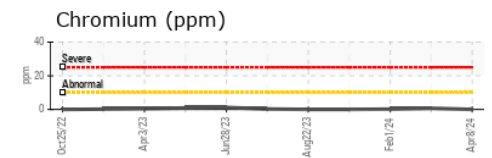
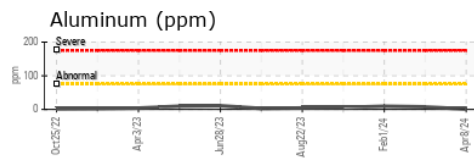
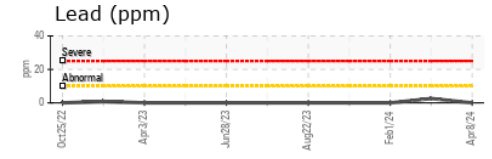
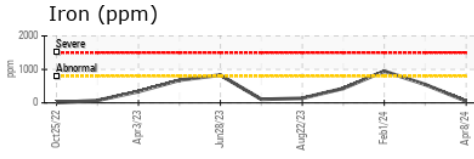


VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	MODER
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	214	199	203
Visc @ 100°C	cSt	ASTM D445	18.3	17.5	17.7
Viscosity Index (VI)	Scale	ASTM D2270	94	94	94

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color				no image	no image
Bottom				no image	no image

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : TO10003322 **Received** : 15 Apr 2024  
**Lab Number** : 06149570 **Tested** : 16 Apr 2024  
**Unique Number** : 10979648 **Diagnosed** : 16 Apr 2024 - Wes Davis  
**Test Package** : MOB 2 ( Additional Tests: KV100, PQ, VI )

**ANCHOR STONE TULSA ROCK**  
 TULSA ROCK QUARRY, 66TH ST N 145TH AVENUE  
 TULSA, OK  
 US 74137

Contact: MIKE SNYDER  
 msnyder@anchorstoneco.com  
 T: (417)850-9635  
 F:   
 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)