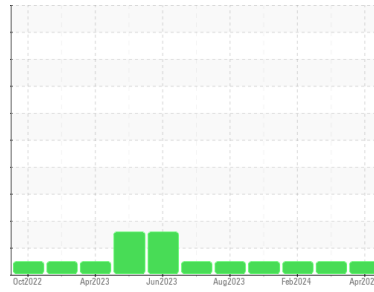


OIL ANALYSIS REPORT



Machine Id
CATERPILLAR 980M 6141 (S/N KRS00885)
Component
Rear Right 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		TO10003021	TO10003372	TO10002969
Sample Date	Client Info		08 Apr 2024	04 Mar 2024	01 Feb 2024
Machine Age	hrs	Client Info	13425	13158	12901
Oil Age	hrs	Client Info	267	1685	1428
Oil Changed	Client Info		Not Changed	Changed	Not Changed
Sample Status			NORMAL	NORMAL	NORMAL

CONTAMINATION

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

WEAR METALS

	method	limit/base	current	history1	history2	
PQ	ASTM D8184	>500	64	403	455	
Iron	ppm	ASTM D5185m	>800	60	540	621
Chromium	ppm	ASTM D5185m	>10	0	<1	<1
Nickel	ppm	ASTM D5185m	>5	0	<1	0
Titanium	ppm	ASTM D5185m	>15	0	<1	0
Silver	ppm	ASTM D5185m	>2	0	<1	0
Aluminum	ppm	ASTM D5185m	>75	1	8	5
Lead	ppm	ASTM D5185m	>10	0	2	0
Copper	ppm	ASTM D5185m	>75	6	51	56
Tin	ppm	ASTM D5185m	>8	<1	1	0
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	<1	0

ADDITIVES

	method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m		0	1	<1
Barium	ppm	ASTM D5185m		0	0	5
Molybdenum	ppm	ASTM D5185m		0	<1	0
Manganese	ppm	ASTM D5185m		<1	6	5
Magnesium	ppm	ASTM D5185m		9	15	19
Calcium	ppm	ASTM D5185m		3017	2744	3135
Phosphorus	ppm	ASTM D5185m		897	885	938
Zinc	ppm	ASTM D5185m		1065	988	1163
Sulfur	ppm	ASTM D5185m		5425	4893	5542

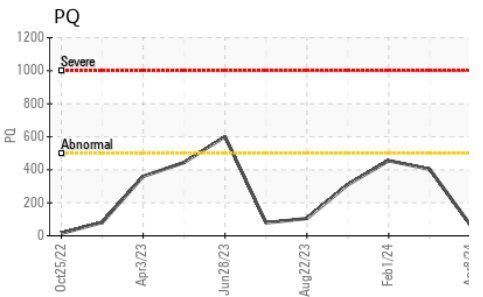
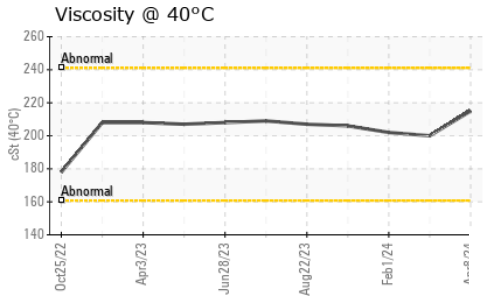
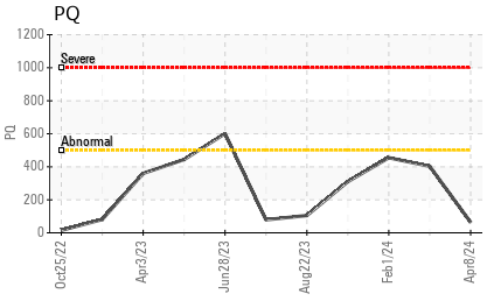
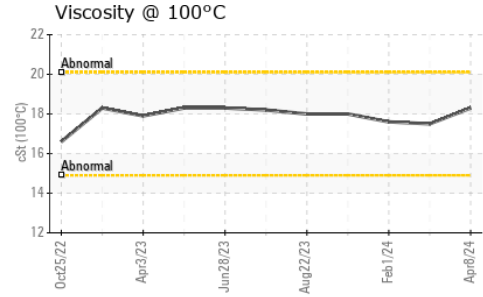
CONTAMINANTS

	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>400	12	15	16
Sodium	ppm	ASTM D5185m		5	5	0
Potassium	ppm	ASTM D5185m	>20	0	3	2

FLUID DEGRADATION

	method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D8045		1.08	0.58	0.41

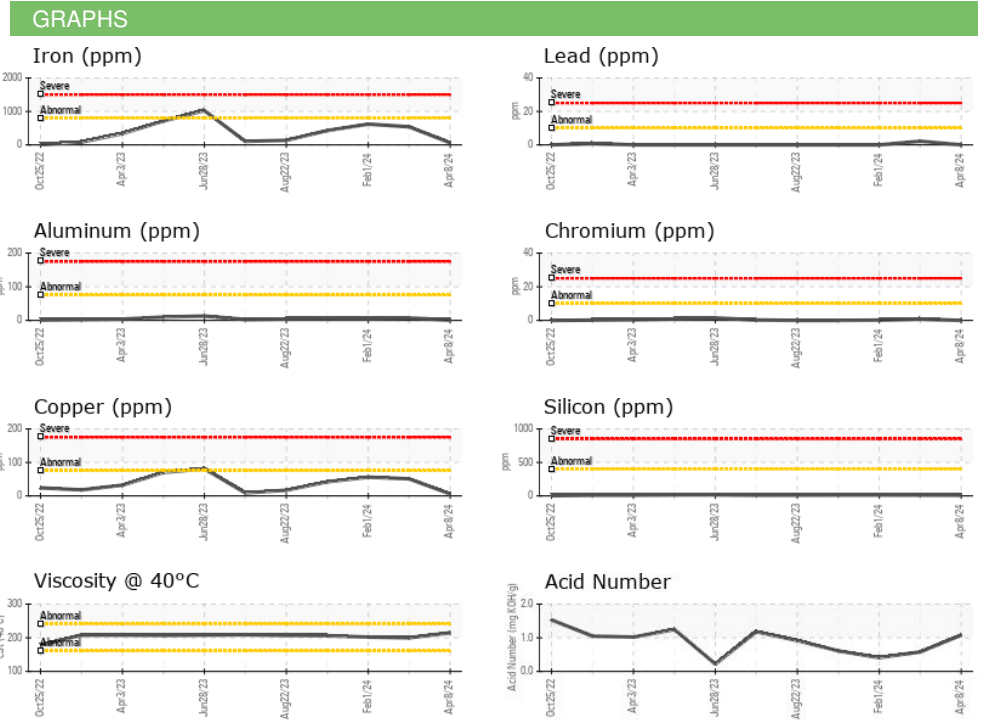
OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	MODER	NONE
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	215	200	202
Visc @ 100°C	cSt	ASTM D445	18.3	17.5	17.6
Viscosity Index (VI)	Scale	ASTM D2270	93	94	93

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



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : TO10003021 **Received** : 15 Apr 2024
Lab Number : 06149573 **Tested** : 16 Apr 2024
Unique Number : 10979651 **Diagnosed** : 16 Apr 2024 - Wes Davis
Test Package : MOT 2 (Additional Tests: KV100, PQ, VI)

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

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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