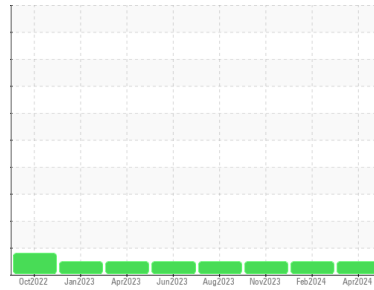


OIL ANALYSIS REPORT



Machine Id
CATERPILLAR 980M 6141 (S/N KRS00885)
 Component
Transmission (Manual)
 Fluid
TULCO LUBSOIL TO-4 30 (16 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 fluid.
- Fluid Condition**
 The AN level is acceptable for this fluid. The condition of the fluid is suitable for further service.

SAMPLE INFORMATION method limit/base current history1 history2

Sample Number	Client Info		TO10003325	TO10002966	TO10002808
Sample Date	Client Info		08 Apr 2024	01 Feb 2024	02 Nov 2023
Machine Age	hrs	Client Info	13425	12901	12384
Oil Age	hrs	Client Info	524	1046	529
Oil Changed		Client Info	Not Chngd	Changed	Not Chngd
Sample Status			NORMAL	NORMAL	NORMAL

CONTAMINATION method limit/base current history1 history2

Water	WC Method	>0.1	NEG	NEG	NEG
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WEAR METALS method limit/base current history1 history2

PQ		ASTM D8184	>95	20	12	9
Iron	ppm	ASTM D5185m	>200	3	8	2
Chromium	ppm	ASTM D5185m	>5	0	<1	0
Nickel	ppm	ASTM D5185m	>5	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>7	0	0	0
Aluminum	ppm	ASTM D5185m	>25	<1	2	<1
Lead	ppm	ASTM D5185m	>45	0	0	0
Copper	ppm	ASTM D5185m	>225	1	2	1
Tin	ppm	ASTM D5185m	>10	<1	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	<1	0
Barium	ppm	ASTM D5185m		0	5	0
Molybdenum	ppm	ASTM D5185m		<1	0	0
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m	9	17	13	11
Calcium	ppm	ASTM D5185m	4500	2910	3086	3028
Phosphorus	ppm	ASTM D5185m	1150	845	859	931
Zinc	ppm	ASTM D5185m	1250	955	1121	1155
Sulfur	ppm	ASTM D5185m	4500	4559	4470	4226

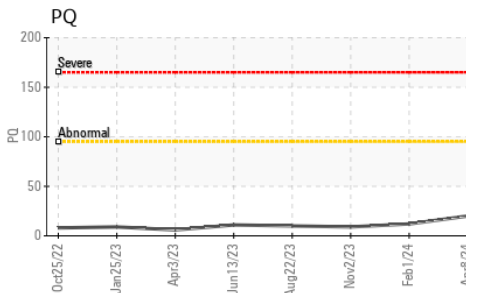
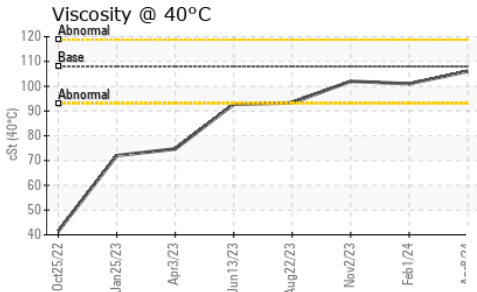
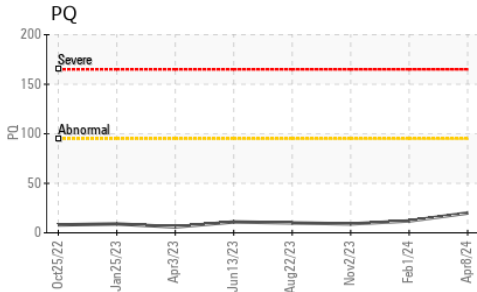
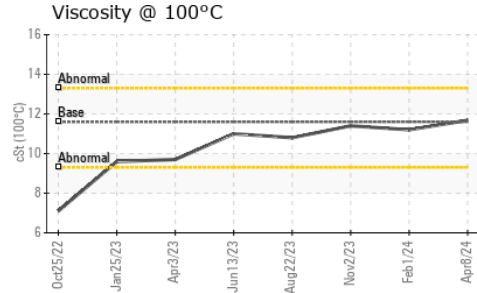
CONTAMINANTS method limit/base current history1 history2

Silicon	ppm	ASTM D5185m	>125	9	9	9
Sodium	ppm	ASTM D5185m		5	0	3
Potassium	ppm	ASTM D5185m	>20	0	2	0

FLUID DEGRADATION method limit/base current history1 history2

Acid Number (AN)	mg KOH/g	ASTM D8045	0.28	1.07	1.00	1.298
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OIL ANALYSIS REPORT

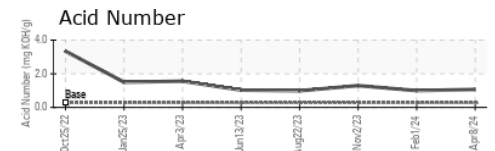
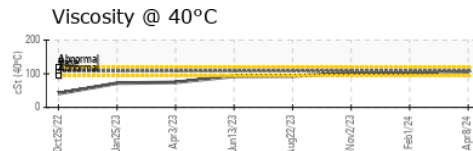
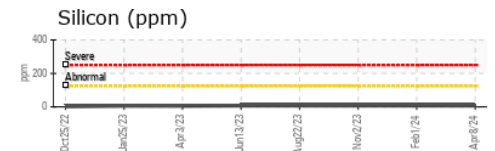
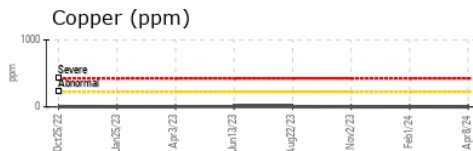
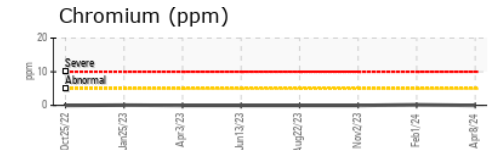
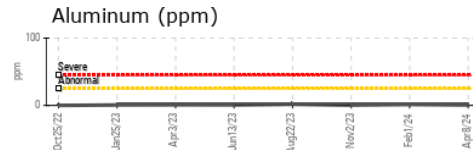
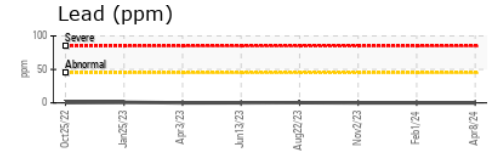
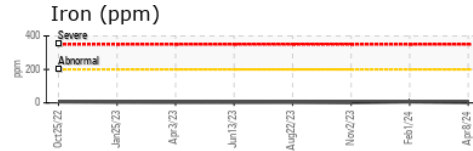


VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	108	106	101
Visc @ 100°C	cSt	ASTM D445	11.6	11.68	11.2
Viscosity Index (VI)	Scale	ASTM D2270	94	97	95

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

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : TO10003325 **Received** : 15 Apr 2024
Lab Number : 06149576 **Tested** : 19 Apr 2024
Unique Number : 10979654 **Diagnosed** : 19 Apr 2024 - Jonathan Hester
Test Package : MOB 2 (Additional Tests: KV100, PQ, VI)

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 TULSA, OK
 US 74137
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 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)