MOB II

TULCO OILS
001 - Tulsa Division

WEAR CHECK

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

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

RECOMMENDATION

Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

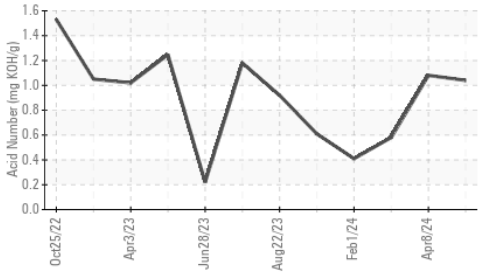
There is no indication of any contamination in the oil.

FLUID CONDITION

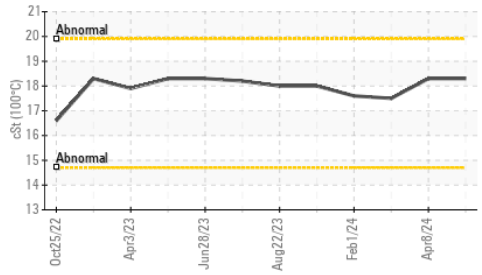
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		TO10003647	TO10003021	TO10003372
Sample Date		Client Info		15 Jun 2024	08 Apr 2024	04 Mar 2024
Machine Age	hrs	Client Info		13913	13425	13158
Oil Age	hrs	Client Info		755	267	1685
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Not Changd	Changed
Filter Changed		Client Info		None	N/A	None
Sample Status				NORMAL	NORMAL	NORMAL
PQ		ASTM D8184	>500	46	64	403
Iron	ppm	ASTM D5185m	>800	58	60	540
Chromium	ppm	ASTM D5185m	>10	0	0	<1
Nickel	ppm	ASTM D5185m	>5	0	0	<1
Titanium	ppm	ASTM D5185m	>15	0	0	<1
Silver	ppm	ASTM D5185m	>2	0	0	<1
Aluminum	ppm	ASTM D5185m	>75	2	1	8
Lead	ppm	ASTM D5185m	>10	0	0	2
Copper	ppm	ASTM D5185m	>75	6	6	51
Tin	ppm	ASTM D5185m	>8	0	<1	1
Vanadium	ppm	ASTM D5185m		0	0	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	MODER
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>400	14	12	15
Potassium	ppm	ASTM D5185m	>20	3	0	3
Water		WC Method	>0.2	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Sodium	ppm	ASTM D5185m		5	5	5
Boron	ppm	ASTM D5185m		0	0	1
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	0	<1
Manganese	ppm	ASTM D5185m		1	<1	6
Magnesium	ppm	ASTM D5185m		13	9	15
Calcium	ppm	ASTM D5185m		3388	3017	2744
Phosphorus	ppm	ASTM D5185m		1069	897	885
Zinc	ppm	ASTM D5185m		1276	1065	988
Sulfur	ppm	ASTM D5185m		5915	5425	4893
Acid Number (AN)	mg KOH/g	ASTM D8045		1.04	1.08	0.58
Visc @ 40°C	cSt	ASTM D445		210	215	200
Visc @ 100°C	cSt	ASTM D445		18.3	18.3	17.5
Viscosity Index (VI)	Scale	ASTM D2270		95	93	94

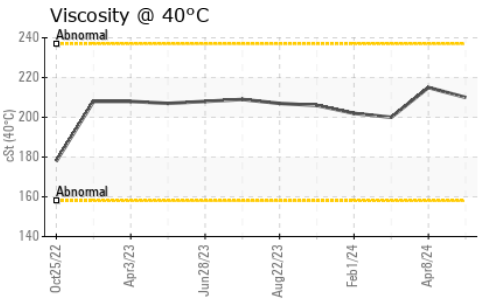
Acid Number



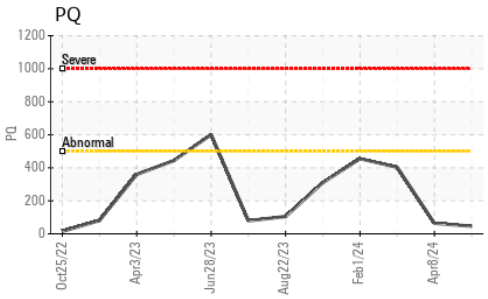
Viscosity @ 100°C



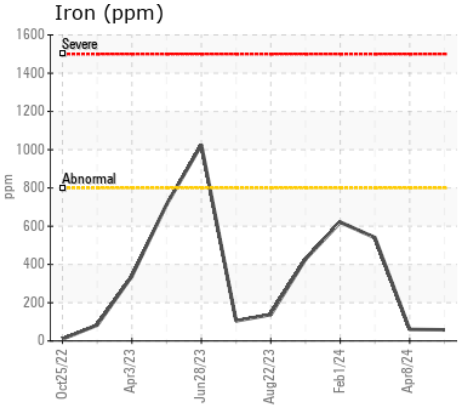
Viscosity @ 40°C



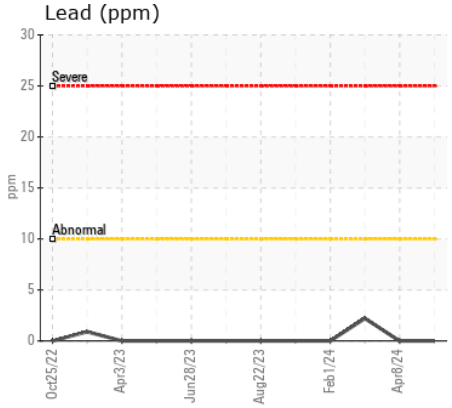
PQ



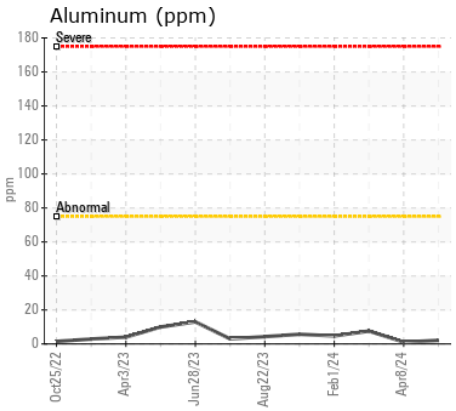
Iron (ppm)



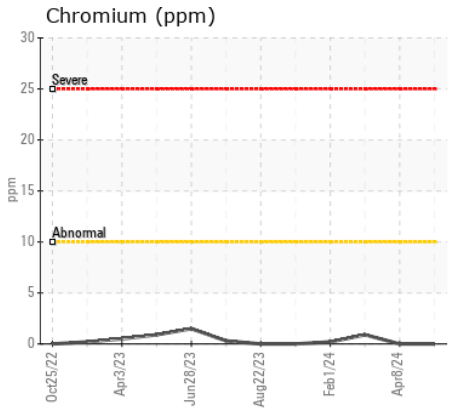
Lead (ppm)



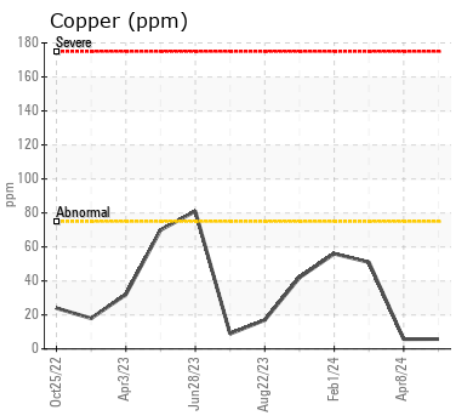
Aluminum (ppm)



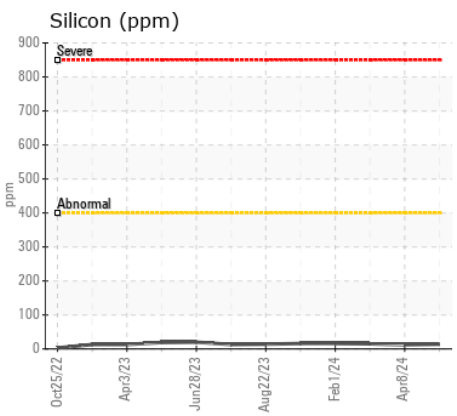
Chromium (ppm)



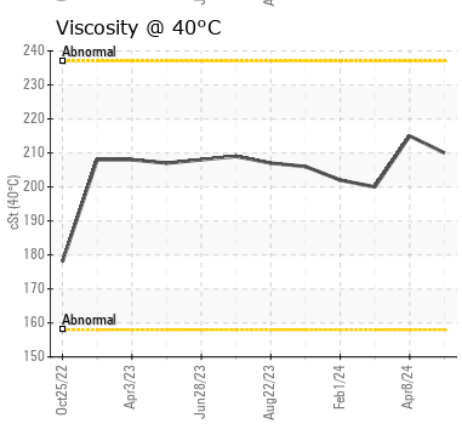
Copper (ppm)



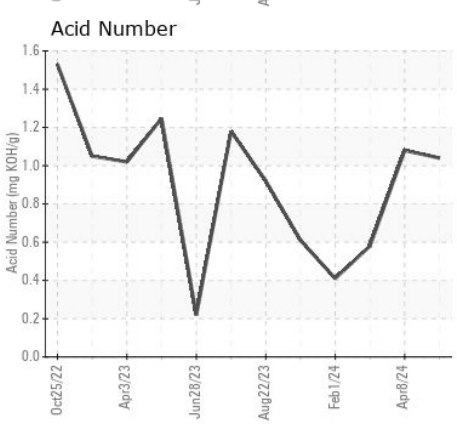
Silicon (ppm)



Viscosity @ 40°C



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : TO10003647
Lab Number : 06216327
Unique Number : 11089191
Test Package : MOB 2 (Additional Tests: KV100, PQ, VI)

Received : 20 Jun 2024
Tested : 21 Jun 2024
Diagnosed : 21 Jun 2024 - Wes Davis

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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