



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
CATERPILLAR 730 6080 (S/N TFF00703)
Component
Center Differential
Fluid
TULCO LUBSOIL TO-4 50 (12 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		TO10003694	TO10003345	TO10002721
Sample Date		Client Info		29 Jun 2024	15 Mar 2024	21 Sep 2023
Machine Age	hrs	Client Info		10723	10211	9710
Oil Age	hrs	Client Info		10723	10211	2044
Filter Age	hrs	Client Info		10723	0	0
Oil Changed		Client Info		Not Changed	Not Changed	Not Changed
Filter Changed		Client Info		Changed	None	None
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

PQ		ASTM D8184		34	53	48
Iron	ppm	ASTM D5185m	>500	42	39	62
Chromium	ppm	ASTM D5185m	>3	0	0	<1
Nickel	ppm	ASTM D5185m	>3	0	0	<1
Titanium	ppm	ASTM D5185m	>2	0	<1	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>30	4	3	7
Lead	ppm	ASTM D5185m	>13	<1	0	0
Copper	ppm	ASTM D5185m	>103	6	5	12
Tin	ppm	ASTM D5185m	>5	<1	<1	0
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	LIGHT	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

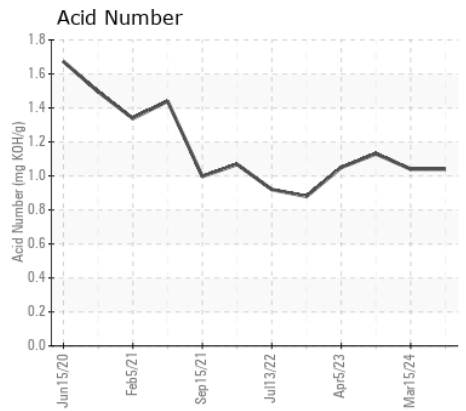
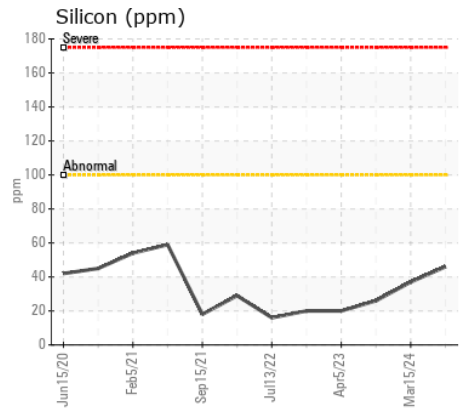
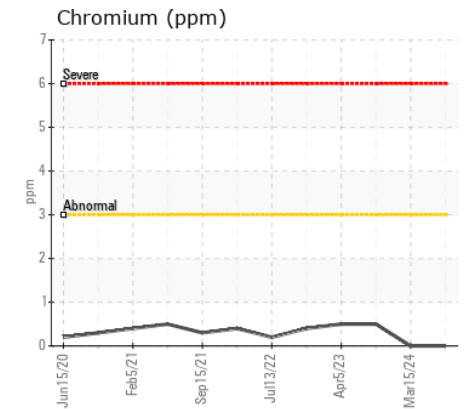
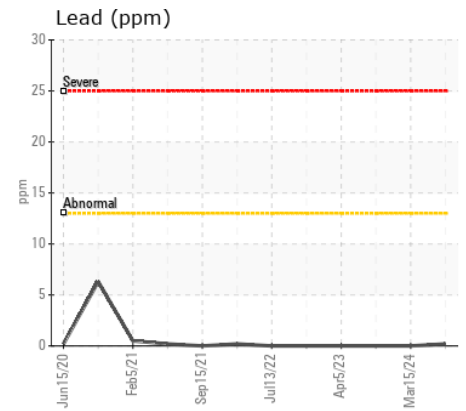
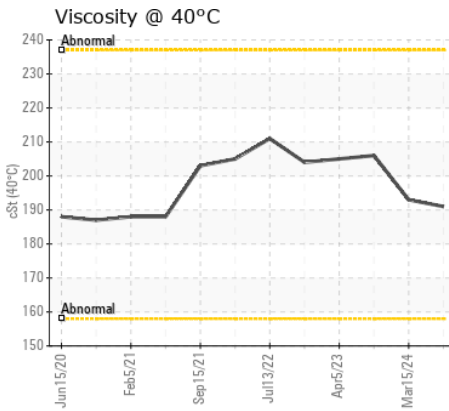
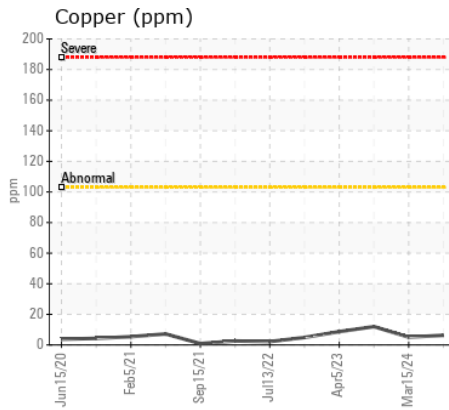
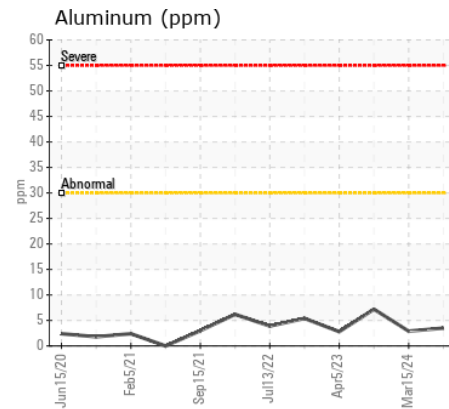
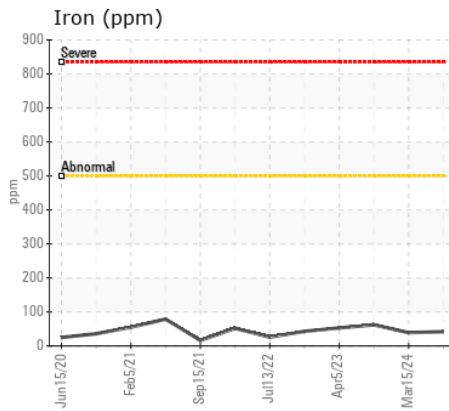
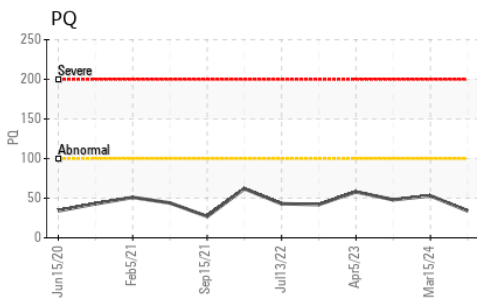
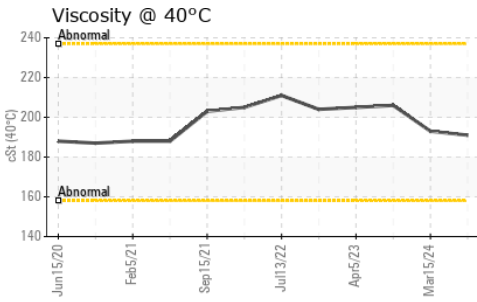
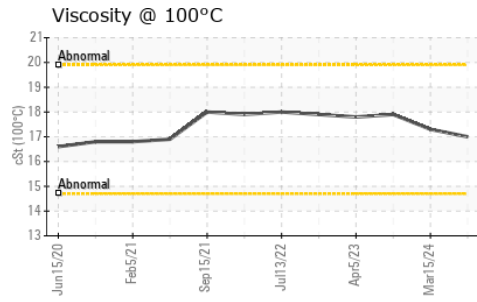
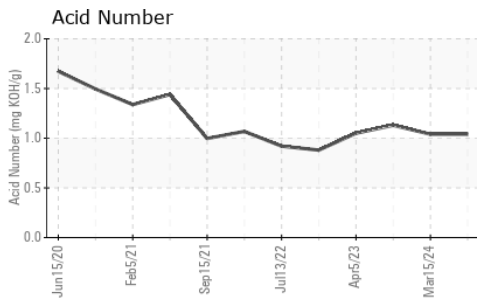
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>100	46	37	26
Potassium	ppm	ASTM D5185m	>20	2	0	2
Water		WC Method	>.2	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	LIGHT	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	>.2	NEG	NEG	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		6	7	2
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		0	0	2
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		<1	<1	1
Magnesium	ppm	ASTM D5185m		12	13	15
Calcium	ppm	ASTM D5185m		3629	3456	4162
Phosphorus	ppm	ASTM D5185m		973	914	832
Zinc	ppm	ASTM D5185m		1188	1125	1023
Sulfur	ppm	ASTM D5185m		5908	5558	4784
Acid Number (AN)	mg KOH/g	ASTM D8045		1.04	1.04	1.13
Visc @ 40°C	cSt	ASTM D445		191	193	206
Visc @ 100°C	cSt	ASTM D445		17.0	17.3	17.9
Viscosity Index (VI)	Scale	ASTM D2270		94	95	94



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : TO10003694 **Received** : 05 Jul 2024
Lab Number : 06229236 **Tested** : 09 Jul 2024
Unique Number : 11112729 **Diagnosed** : 09 Jul 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

Certificate L2367 **Contact: MIKE SNYDER**
 To discuss this sample report, contact Customer Service at 1-800-237-1369. **msnyder@anchorstoneco.com**
 * - 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) **F:**