



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
CATERPILLAR 730 WATER TRK 6019 (S/N B1M03182)
Component
Transmission
Fluid
TULCO LUBSOIL TO-4 30 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		TO10003053	TO10002332	TO10001415
Sample Date		Client Info		08 Jan 2024	26 Jun 2023	28 Jul 2022
Machine Age	hrs	Client Info		11612	11087	10412
Oil Age	hrs	Client Info		525	1163	488
Filter Age	hrs	Client Info		525	675	488
Oil Changed		Client Info		Not Changed	Changed	Not Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	ABNORMAL	ABNORMAL

WEAR

All component wear rates are normal.

PQ	UOM	Method	Limit/Abn	Current	History1	History2
PQ		ASTM D8184		17	20	15
Iron	ppm	ASTM D5185m	>200	11	10	9
Chromium	ppm	ASTM D5185m	>10	0	<1	<1
Nickel	ppm	ASTM D5185m		0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		<1	1	1
Aluminum	ppm	ASTM D5185m	>50	2	1	2
Lead	ppm	ASTM D5185m	>50	0	<1	2
Copper	ppm	ASTM D5185m	>200	133	▲ 295	▲ 205
Tin	ppm	ASTM D5185m	>10	0	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

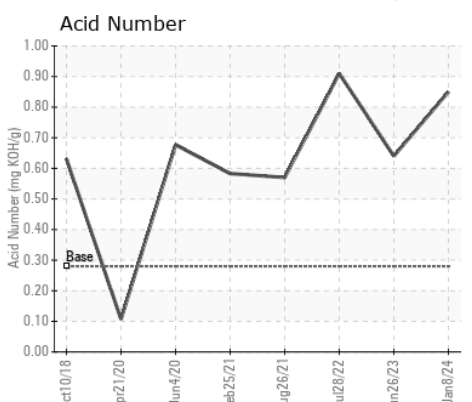
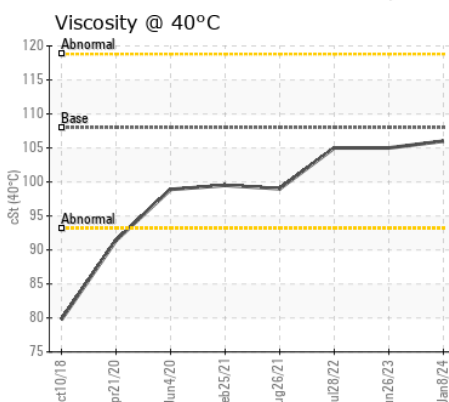
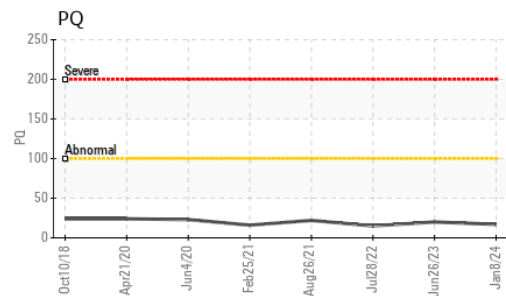
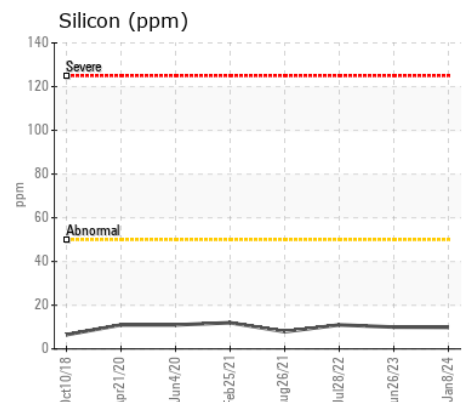
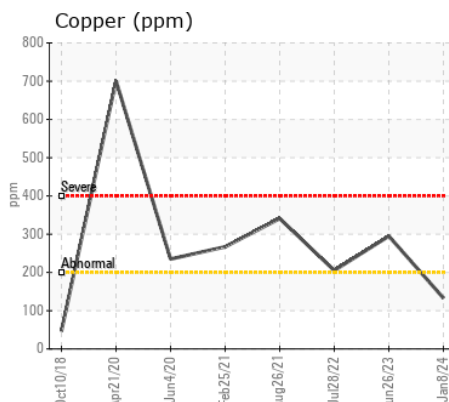
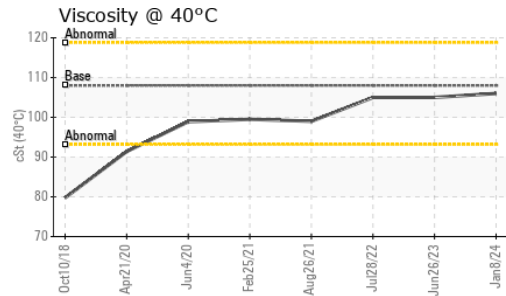
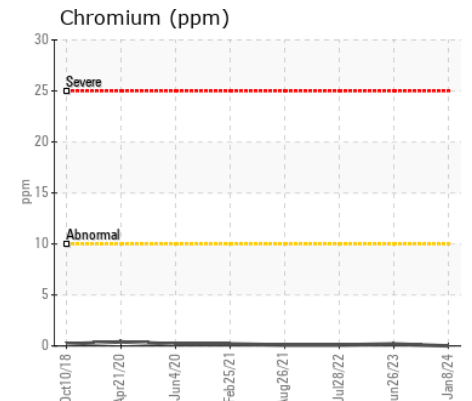
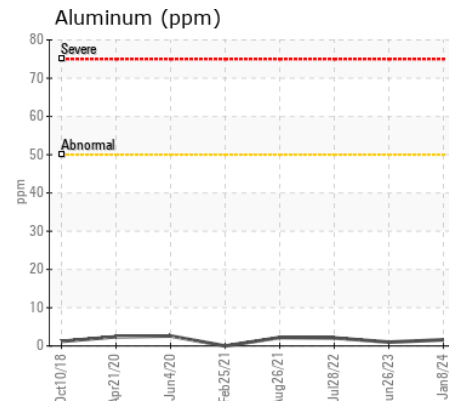
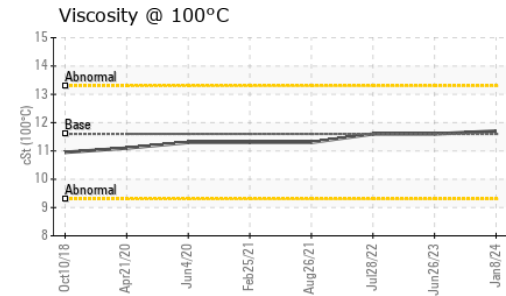
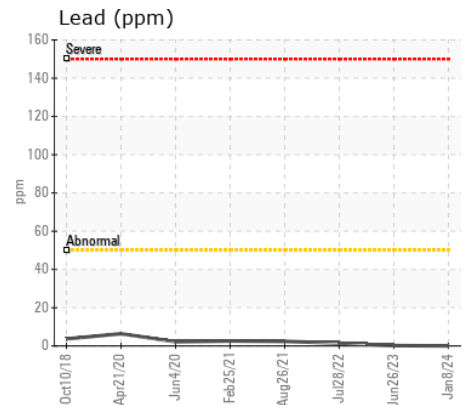
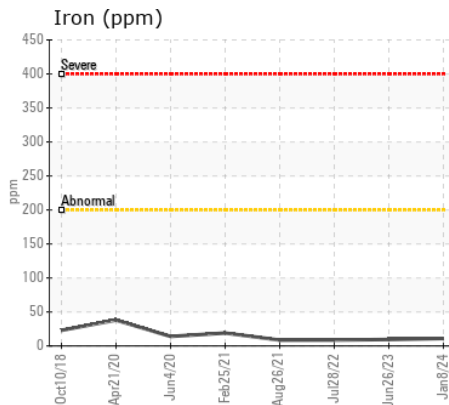
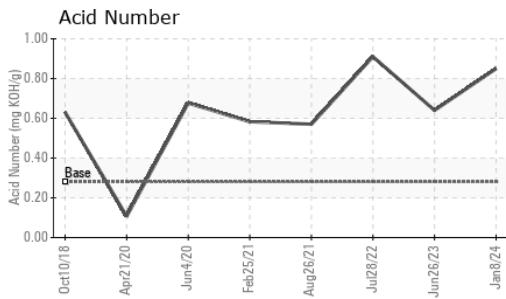
There is no indication of any contamination in the fluid.

Silicon	ppm	ASTM D5185m	>50	10	10	11
Potassium	ppm	ASTM D5185m	>20	0	0	0
Water		WC Method	>0.1	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	>0.1	NEG	NEG	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		2	4	4
Boron	ppm	ASTM D5185m		0	0	3
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	<1	<1
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	9	14	18	17
Calcium	ppm	ASTM D5185m	4500	3101	3686	3559
Phosphorus	ppm	ASTM D5185m	1150	882	939	866
Zinc	ppm	ASTM D5185m	1250	1076	1149	1067
Sulfur	ppm	ASTM D5185m	4500	3953	5330	4379
Acid Number (AN)	mg KOH/g	ASTM D8045	0.28	0.85	0.64	0.91
Visc @ 40°C	cSt	ASTM D445	108	106	105	105
Visc @ 100°C	cSt	ASTM D445	11.6	11.7	11.6	11.6
Viscosity Index (VI)	Scale	ASTM D2270	94	97	97	97



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : TO10003053 **Received** : 16 Jan 2024
Lab Number : 06061351 **Diagnosed** : 18 Jan 2024
Unique Number : 10832733 **Diagnostician** : Wes Davis
Test Package : MOB 2 (Additional Tests: KV100, PQ, VI)

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Certificate L2367
 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)