



OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
DE Samples - CAT LAB
Machine Id
KOMATSU HAUL TRUCK 6526 (S/N 10125)
Component
Transmission (Manual)
Fluid
TULCO LUBSOIL TO-4 30 (--- GAL)

RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		TO10003710	TO10003042	TO10002077
Sample Date		Client Info		02 Jul 2024	07 Dec 2023	18 Jul 2023
Machine Age	hrs	Client Info		31653	31166	30719
Oil Age	hrs	Client Info		1486	948	501
Filter Age	hrs	Client Info		1486	447	501
Oil Changed		Client Info		Not Changd	Changed	Not Changd
Filter Changed		Client Info		Not Changd	Changed	Changed
Sample Status				ABNORMAL	NORMAL	NORMAL

WEAR

Clutch and/or bushing/bearing wear is indicated. All other component wear rates are normal.

PQ		ASTM D8184	>95	16	16	14
Iron	ppm	ASTM D5185m	>200	5	<1	2
Chromium	ppm	ASTM D5185m	>5	<1	0	<1
Nickel	ppm	ASTM D5185m	>5	<1	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>7	0	0	<1
Aluminum	ppm	ASTM D5185m	>25	1	<1	2
Lead	ppm	ASTM D5185m	>45	0	0	0
Copper	ppm	ASTM D5185m	>225	▲ 226	18	15
Tin	ppm	ASTM D5185m	>10	0	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

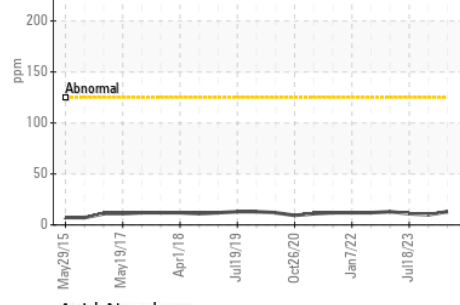
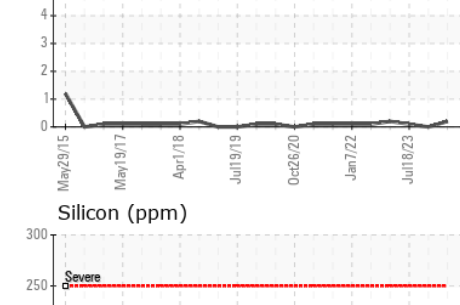
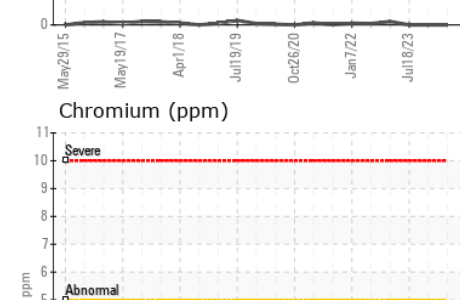
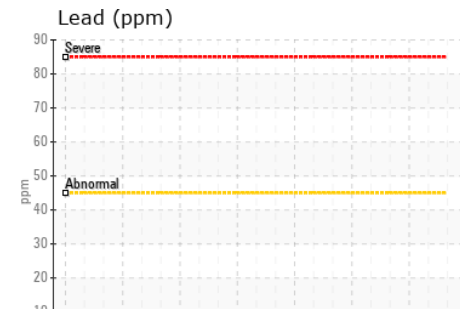
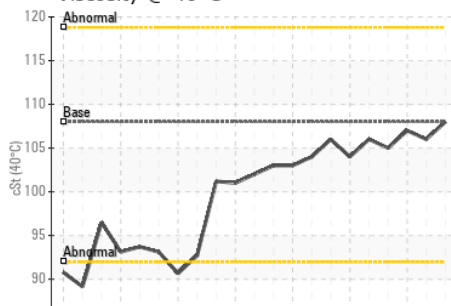
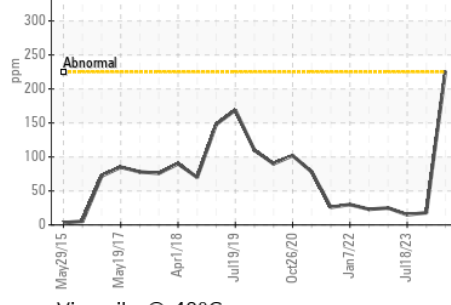
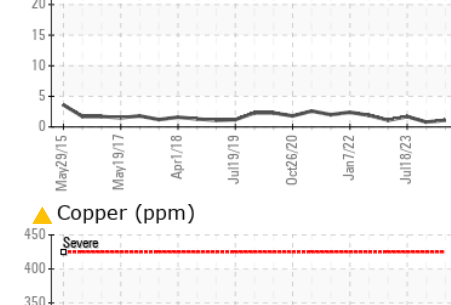
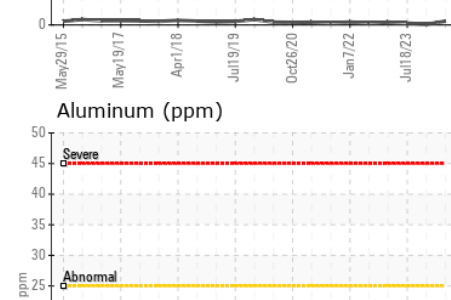
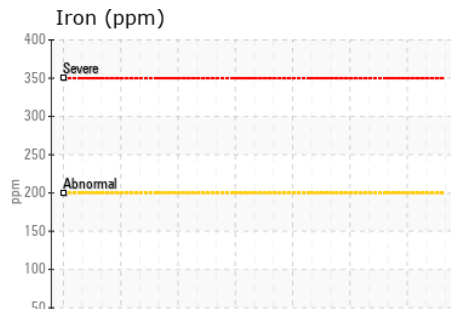
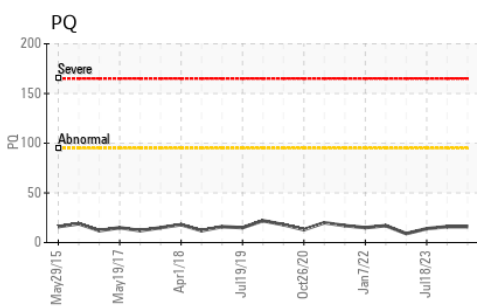
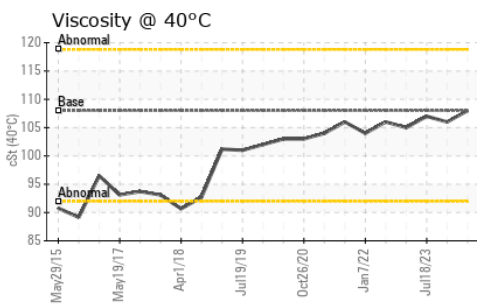
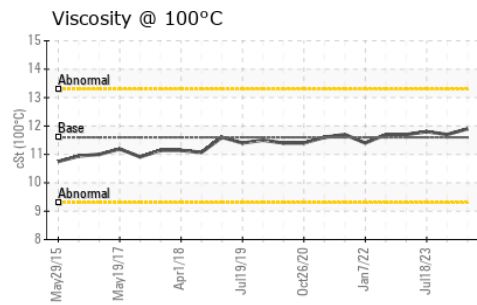
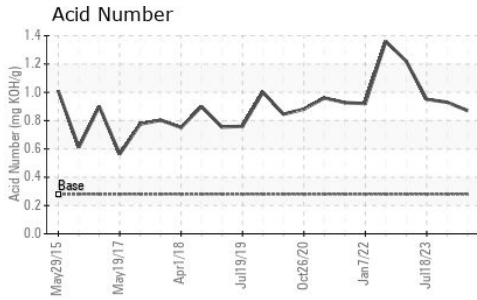
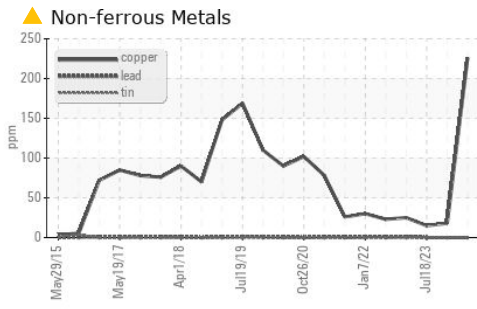
There is no indication of any contamination in the fluid.

Silicon	ppm	ASTM D5185m	>125	13	10	11
Potassium	ppm	ASTM D5185m	>20	2	0	<1
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		0	5	2
Boron	ppm	ASTM D5185m		<1	0	0
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		<1	0	<1
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m	9	7	12	14
Calcium	ppm	ASTM D5185m	4500	3243	2915	3205
Phosphorus	ppm	ASTM D5185m	1150	958	886	958
Zinc	ppm	ASTM D5185m	1250	1167	1067	1209
Sulfur	ppm	ASTM D5185m	4500	4356	4079	5488
Acid Number (AN)	mg KOH/g	ASTM D8045	0.28	0.87	0.93	0.95
Visc @ 40°C	cSt	ASTM D445	108	108	106	107
Visc @ 100°C	cSt	ASTM D445	11.6	11.9	11.7	11.8
Viscosity Index (VI)	Scale	ASTM D2270	94	98	97	98



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513

Sample No. : TO10003710

Lab Number : 06230880

Unique Number : 11114373

Test Package : MOB 2 (Additional Tests: KV100, PQ, VI)

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)

Received : 08 Jul 2024

Tested : 10 Jul 2024

Diagnosed : 10 Jul 2024 - Don Baldrige

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