



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
DE Samples - CAT LAB
Machine Id
KOMATSU HAUL TRUCK 6526 (S/N 10125)
Component
Rear Differential
Fluid
TULCO LUBSOIL TO-4 50 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		TO10003673	TO10003046	TO10002080
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		2473	1986	1539
Filter Age	hrs	Client Info		2473	0	0
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Filter Changed		Client Info		None	None	None
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

PQ		ASTM D8184		49	48	46
Iron	ppm	ASTM D5185m	>500	40	29	29
Chromium	ppm	ASTM D5185m	>10	<1	<1	<1
Nickel	ppm	ASTM D5185m	>10	0	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		0	0	<1
Aluminum	ppm	ASTM D5185m	>25	2	2	2
Lead	ppm	ASTM D5185m	>25	0	0	0
Copper	ppm	ASTM D5185m	>100	1	1	0
Tin	ppm	ASTM D5185m	>10	0	0	<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

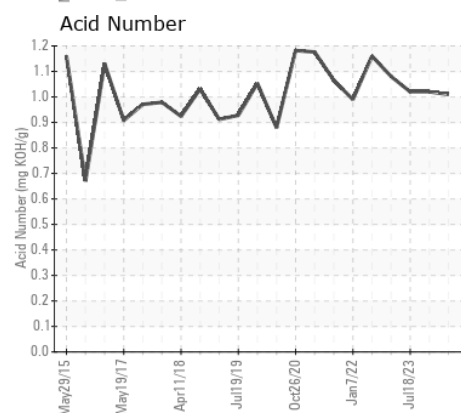
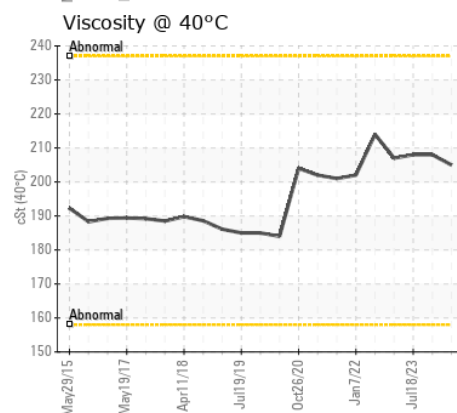
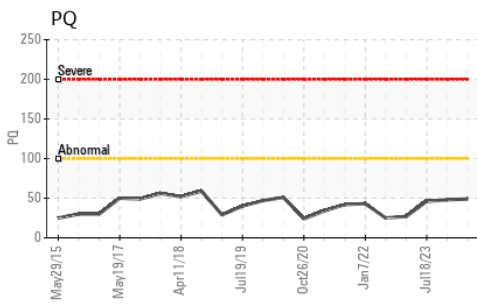
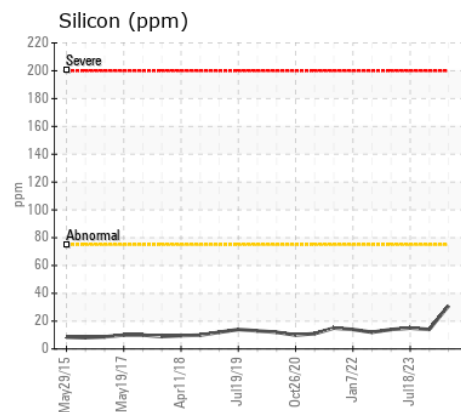
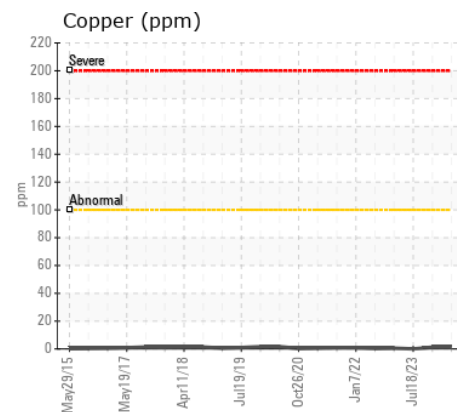
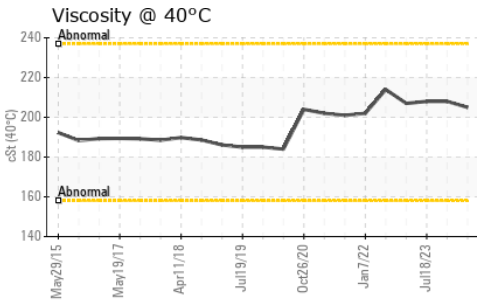
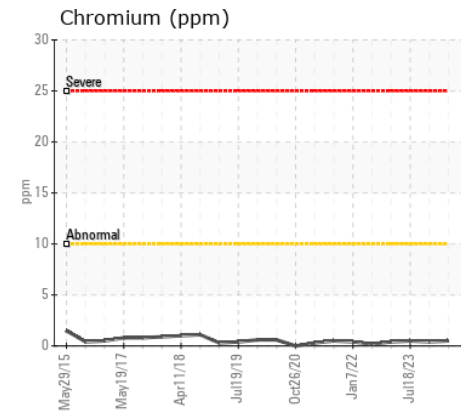
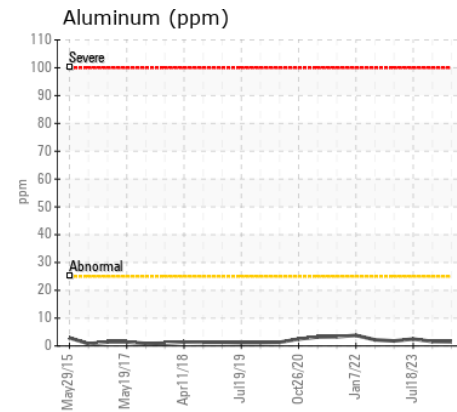
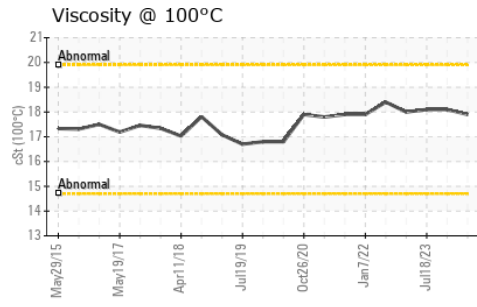
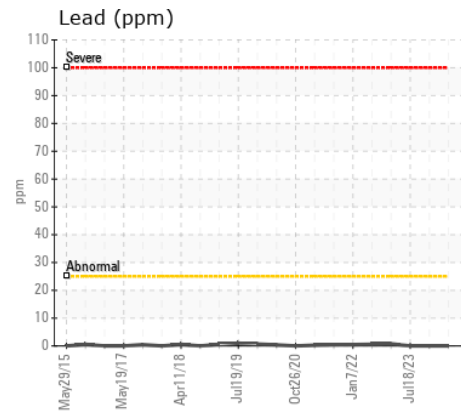
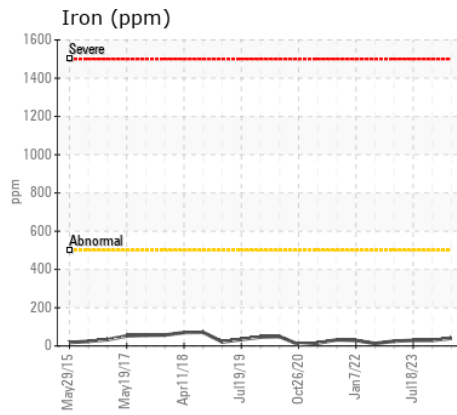
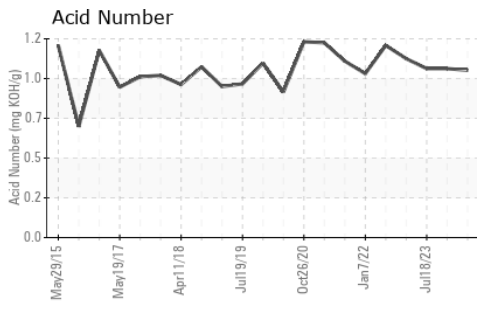
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>75	31	14	15
Potassium	ppm	ASTM D5185m	>20	2	0	<1
Water		WC Method	>.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	>.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		3	7	4
Boron	ppm	ASTM D5185m		<1	0	0
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	0	<1
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m		12	14	16
Calcium	ppm	ASTM D5185m		3592	3589	4063
Phosphorus	ppm	ASTM D5185m		875	851	920
Zinc	ppm	ASTM D5185m		1064	1034	1164
Sulfur	ppm	ASTM D5185m		4771	4733	6197
Acid Number (AN)	mg KOH/g	ASTM D8045		1.01	1.02	1.02
Visc @ 40°C	cSt	ASTM D445		205	208	208
Visc @ 100°C	cSt	ASTM D445		17.9	18.1	18.1
Viscosity Index (VI)	Scale	ASTM D2270		95	95	95



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : TO10003673
Lab Number : 06230877
Unique Number : 11114370
Test Package : MOB 2 (Additional Tests: KV100, PQ, VI)
Received : 08 Jul 2024
Tested : 10 Jul 2024
Diagnosed : 10 Jul 2024 - Wes Davis

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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)