



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
KOMATSU WA600-6 6529 (S/N KMTWA097C26060135)
 Component
Transmission (Manual)
 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		TO10002111	TO10003150	TO10002729
Sample Date		Client Info		13 Jun 2024	20 Feb 2024	18 Oct 2023
Machine Age	hrs	Client Info		22846	22323	21834
Oil Age	hrs	Client Info		523	568	79
Filter Age	hrs	Client Info		523	489	79
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

PQ		ASTM D8184	>95	15	13	18
Iron	ppm	ASTM D5185m	>200	4	3	2
Chromium	ppm	ASTM D5185m	>5	0	<1	<1
Nickel	ppm	ASTM D5185m	>5	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>7	0	0	0
Aluminum	ppm	ASTM D5185m	>25	1	2	3
Lead	ppm	ASTM D5185m	>45	0	0	0
Copper	ppm	ASTM D5185m	>225	12	8	9
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

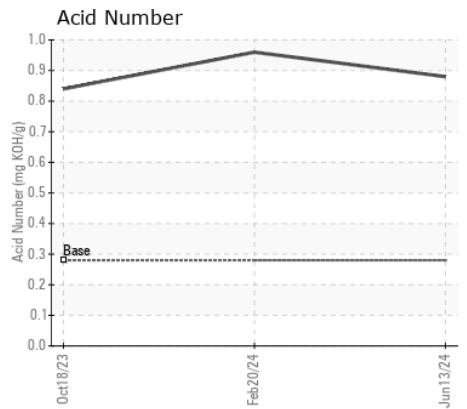
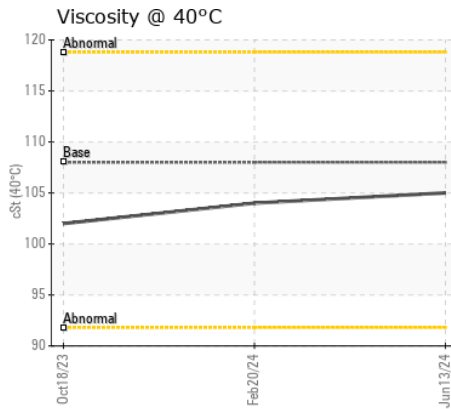
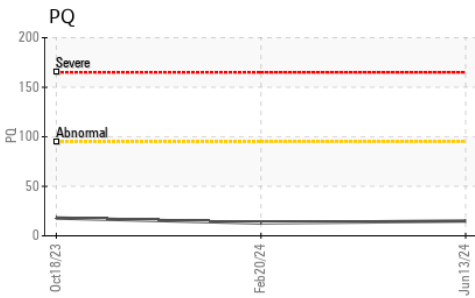
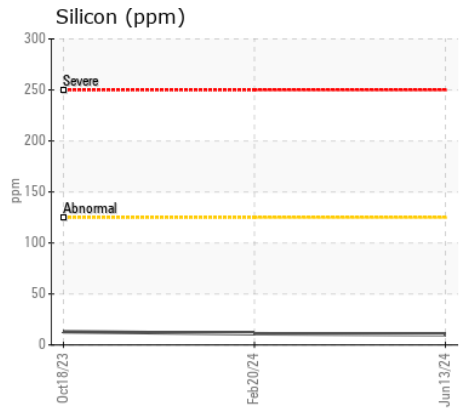
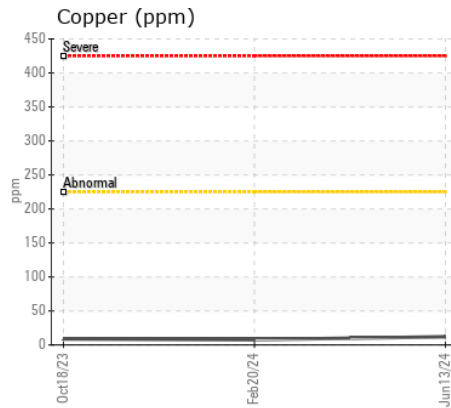
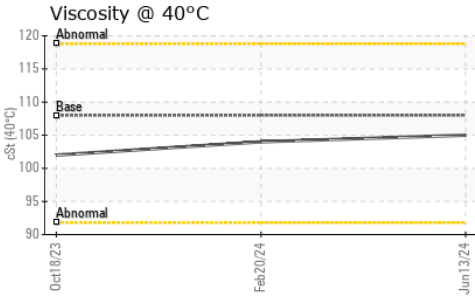
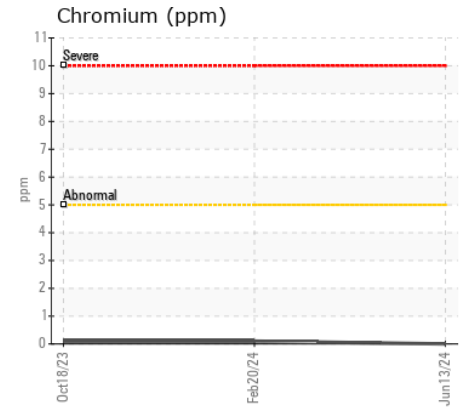
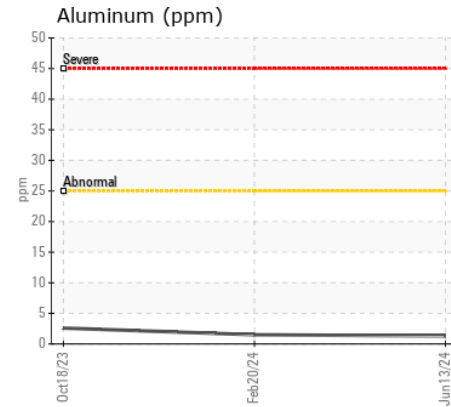
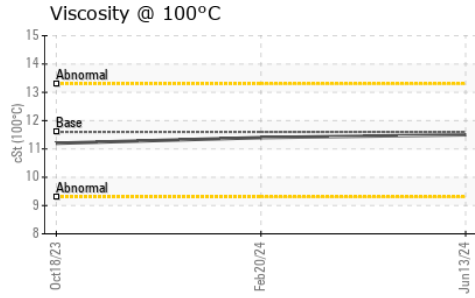
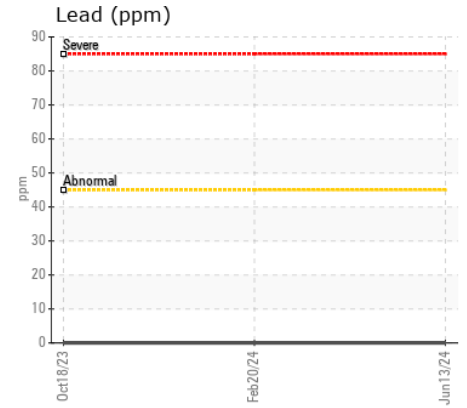
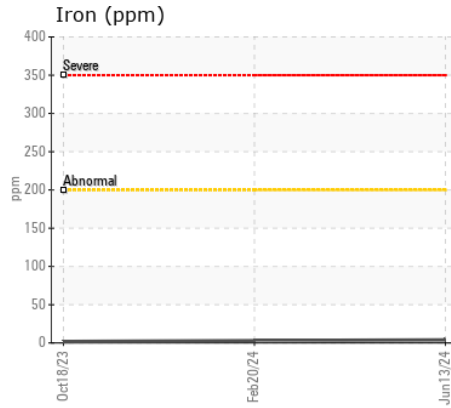
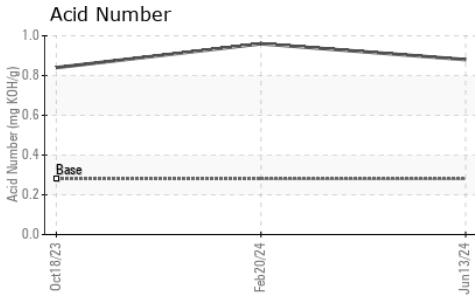
There is no indication of any contamination in the fluid.

Silicon	ppm	ASTM D5185m	>125	10	11	13
Potassium	ppm	ASTM D5185m	>20	0	2	0
Water		WC Method	>0.1	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	LIGHT
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		3	0	1
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		0	8	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		0	0	<1
Magnesium	ppm	ASTM D5185m	9	17	17	21
Calcium	ppm	ASTM D5185m	4500	3490	3010	3879
Phosphorus	ppm	ASTM D5185m	1150	904	749	759
Zinc	ppm	ASTM D5185m	1250	1075	967	898
Sulfur	ppm	ASTM D5185m	4500	4861	3682	3943
Acid Number (AN)	mg KOH/g	ASTM D8045	0.28	0.880	0.96	0.84
Visc @ 40°C	cSt	ASTM D445	108	105	104	102
Visc @ 100°C	cSt	ASTM D445	11.6	11.5	11.4	11.2
Viscosity Index (VI)	Scale	ASTM D2270	94	95	95	94



Certificate L2367

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

Sample No. : TO10002111

Lab Number : 06213650

Unique Number : 11086514

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

Received : 18 Jun 2024

Tested : 20 Jun 2024

Diagnosed : 20 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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