



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL



Machine Id
KOMATSU WA-200-5L RTL-1 (S/N 65707)
Component
Hydraulic System
Fluid
{not provided} (--- GAL)

RECOMMENDATION

The filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition. Please specify the brand, type, and viscosity of the oil on your next sample.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		CL0005250	CL0004032	CL0000864
Sample Date		Client Info		11 Mar 2024	24 Feb 2023	04 Feb 2020
Machine Age	hrs	Client Info		9815	9460	8585
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changed	Not Changed	Not Changed
Filter Changed		Client Info		Changed	Not Changed	Changed
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>20	5	9	9
Chromium	ppm	ASTM D5185m	>10	<1	0	<1
Nickel	ppm	ASTM D5185m	>10	<1	0	<1
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m		0	0	<1
Aluminum	ppm	ASTM D5185m	>10	5	7	7
Lead	ppm	ASTM D5185m	>10	2	4	6
Copper	ppm	ASTM D5185m	>75	14	19	25
Tin	ppm	ASTM D5185m	>10	<1	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

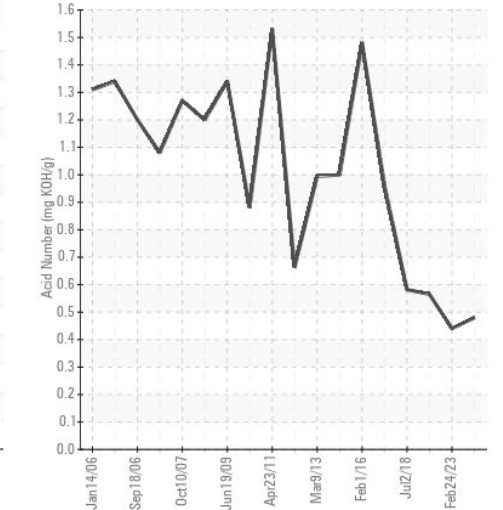
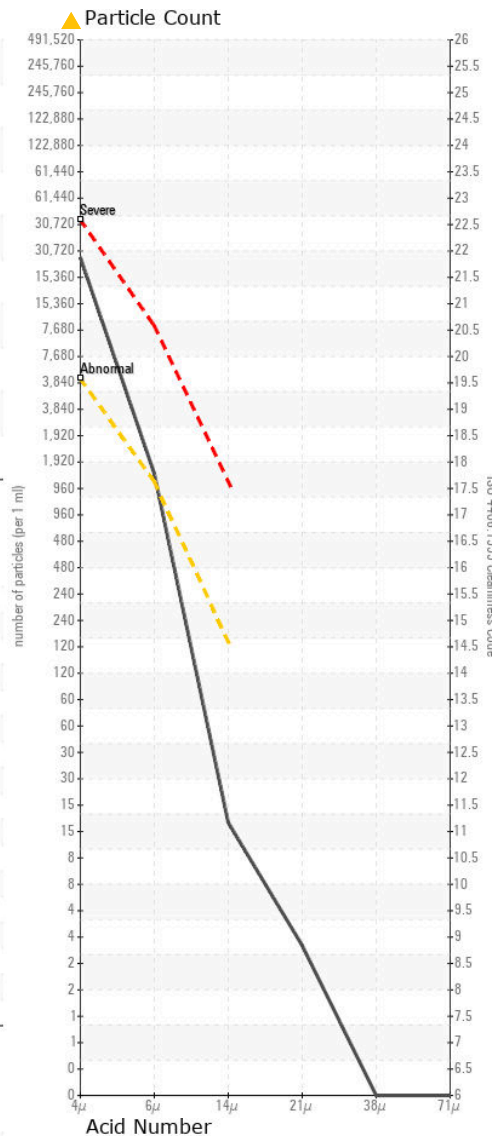
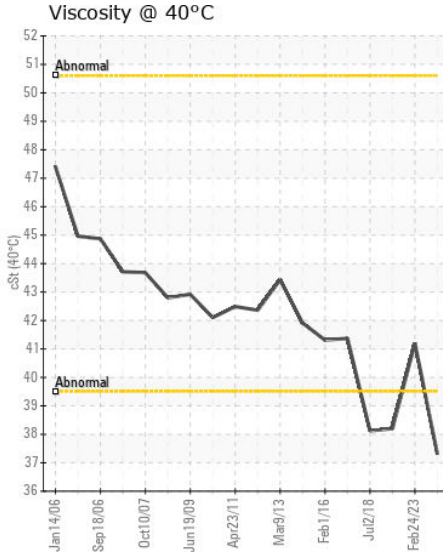
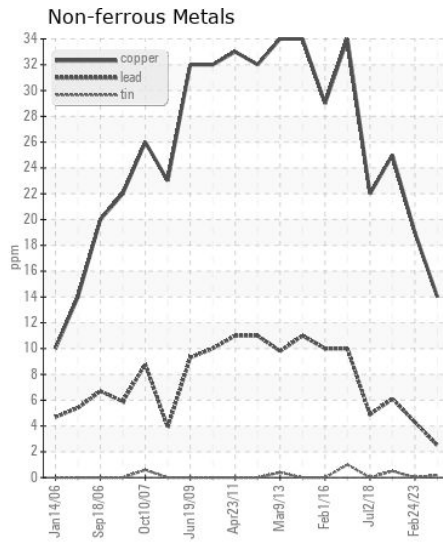
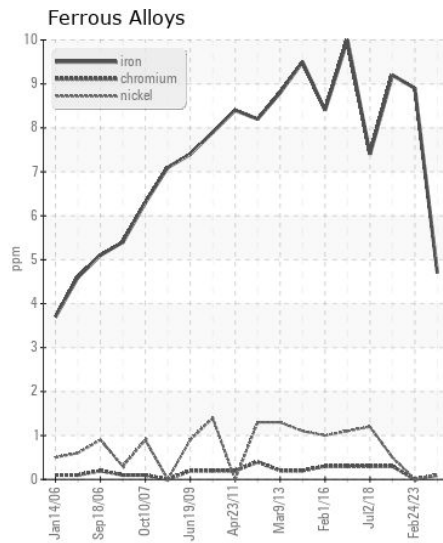
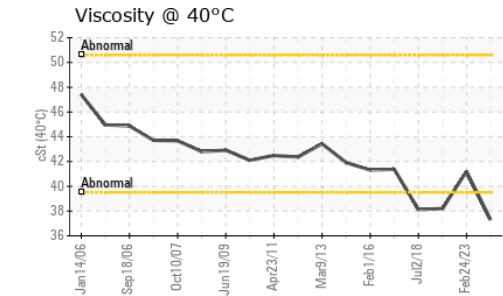
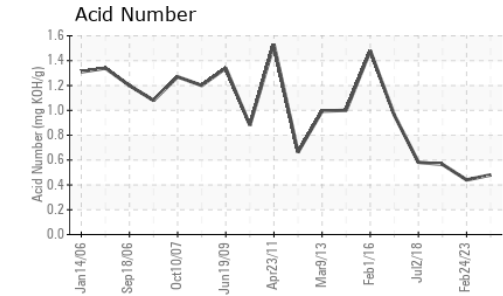
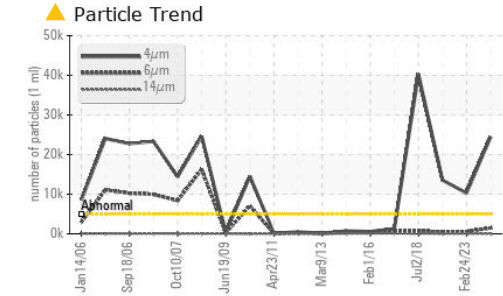
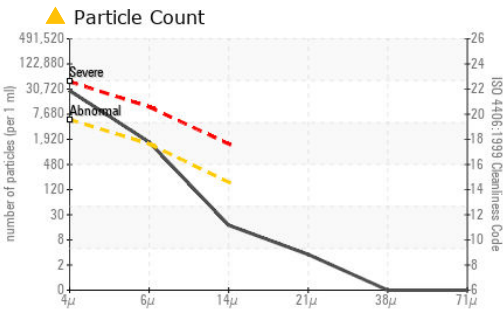
There is a moderate amount of silt (particulates < 14 microns in size) present in the oil.

Silicon	ppm	ASTM D5185m	>20	9	10	10
Potassium	ppm	ASTM D5185m	>20	3	4	9
Water		WC Method	>0.1	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>5000	▲ 24469	▲ 10302	▲ 13539
Particles >6µm		ASTM D7647	>1300	● 1446	573	439
Particles >14µm		ASTM D7647	>160	15	34	17
Particles >21µm		ASTM D7647	>40	3	7	8
Particles >38µm		ASTM D7647	>10	0	0	5
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	▲ 22/18/11	▲ 21/16/12	▲ 21/16/11
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 oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

Sodium	ppm	ASTM D5185m		3	3	1
Boron	ppm	ASTM D5185m		19	27	37
Barium	ppm	ASTM D5185m		0	0	2
Molybdenum	ppm	ASTM D5185m		8	11	16
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		12	6	9
Calcium	ppm	ASTM D5185m		881	1235	1668
Phosphorus	ppm	ASTM D5185m		418	449	486
Zinc	ppm	ASTM D5185m		522	557	645
Sulfur	ppm	ASTM D5185m		3433	2428	2203
Acid Number (AN)	mg KOH/g	ASTM D8045		0.48	0.44	0.565
Visc @ 40°C	cSt	ASTM D445		37.3	41.2	38.2



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : CL0005250
Lab Number : 06121543
Unique Number : 10930376
Test Package : CONST

Received : 18 Mar 2024
Tested : 19 Mar 2024
Diagnosed : 19 Mar 2024 - Wes Davis

BULLSEYE CONSTRUCTION
 581 N POLK ST
 PINEVILLE, NC
 US 28134
 Contact: SERVICE MANAGER

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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