MOB II WEAR CHECK

OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Area
PCS - PORTABLE CRUSHING SERVICES
Machine Id
KOMATSU PC290LC TH01 - PCS
Component
Hydraulic System
Fluid
STP HYDRO ISO AW 46 (66 GAL)

RECOMMENDATION

We advise that you check all areas where dirt can enter the system. We recommend you service the filters on this component. Resample at the next service interval to monitor.

WEAR

The iron level is abnormal. All other component wear rates are normal.

CONTAMINATION

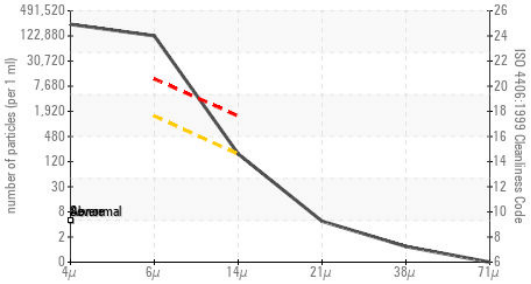
There is a high amount of particulates present in the oil. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

FLUID CONDITION

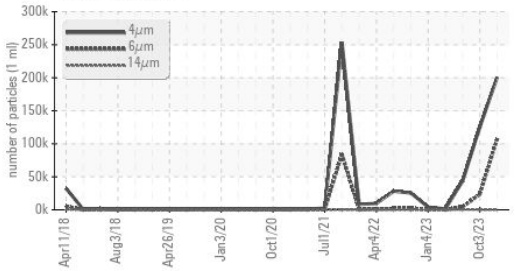
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		KL0014099	KL0013078	KL0009677
Sample Date		Client Info		09 Jan 2024	03 Oct 2023	29 Jun 2023
Machine Age	hrs	Client Info		12462	12320	12092
Oil Age	hrs	Client Info		5112	4970	4742
Filter Age	hrs	Client Info		5112	4970	4742
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Filter Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				ABNORMAL	SEVERE	ABNORMAL
Iron	ppm	ASTM D5185m	>20	▲ 34	4	1
Chromium	ppm	ASTM D5185m	>10	0	0	0
Nickel	ppm	ASTM D5185m	>10	0	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>10	▲ 6	<1	<1
Lead	ppm	ASTM D5185m	>10	0	0	0
Copper	ppm	ASTM D5185m	>75	14	9	5
Tin	ppm	ASTM D5185m	>10	0	<1	0
Vanadium	ppm	ASTM D5185m		0	0	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>20	▲ 28	6	3
Potassium	ppm	ASTM D5185m	>20	<1	<1	1
Water		WC Method	>0.1	NEG	NEG	NEG
Particles >4µm		ASTM D7647		200528	125360	43543
Particles >6µm		ASTM D7647	>1300	▲ 106645	⬢ 23645	▲ 4453
Particles >14µm		ASTM D7647	>160	▲ 162	49	▲ 378
Particles >21µm		ASTM D7647	>40	4	11	▲ 69
Particles >38µm		ASTM D7647	>10	1	1	2
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>17/14	▲ 24/15	⬢ 22/13	▲ 19/16
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
Sodium	ppm	ASTM D5185m		2	0	<1
Boron	ppm	ASTM D5185m		3	0	0
Barium	ppm	ASTM D5185m		0	0	<1
Molybdenum	ppm	ASTM D5185m		11	1	0
Manganese	ppm	ASTM D5185m		<1	<1	0
Magnesium	ppm	ASTM D5185m		0	2	2
Calcium	ppm	ASTM D5185m		124	42	28
Phosphorus	ppm	ASTM D5185m		298	283	301
Zinc	ppm	ASTM D5185m		338	313	333
Sulfur	ppm	ASTM D5185m		1335	1271	1532
Acid Number (AN)	mg KOH/g	ASTM D8045		0.35	0.40	0.36
Visc @ 40°C	cSt	ASTM D445		44.9	43.7	44.8

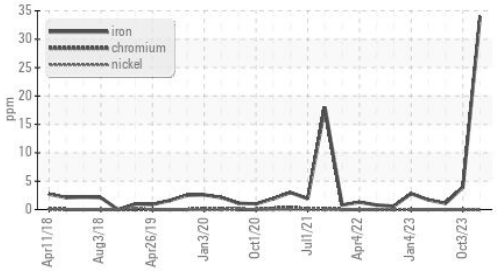
Particle Count



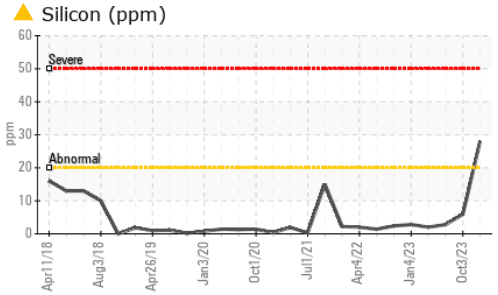
Particle Trend



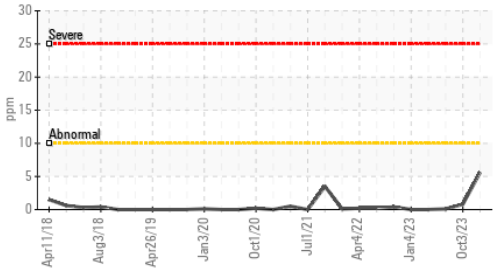
Ferrous Alloys



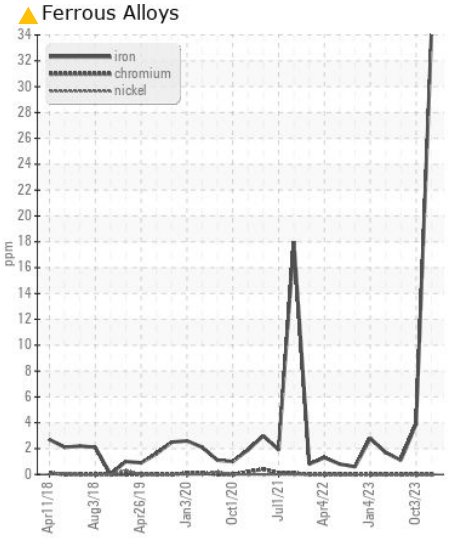
Silicon (ppm)



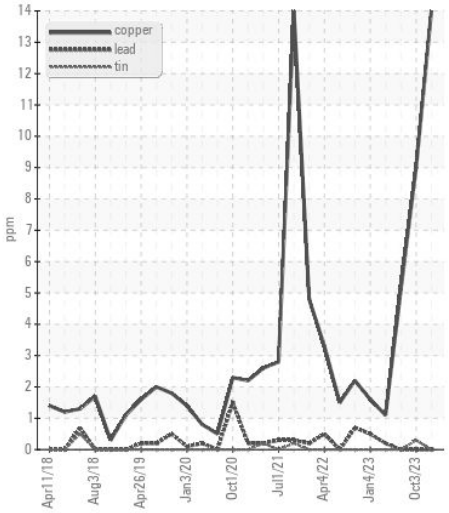
Aluminum (ppm)



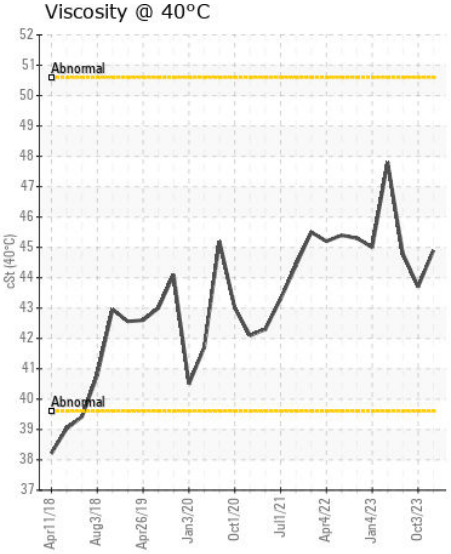
Ferrous Alloys



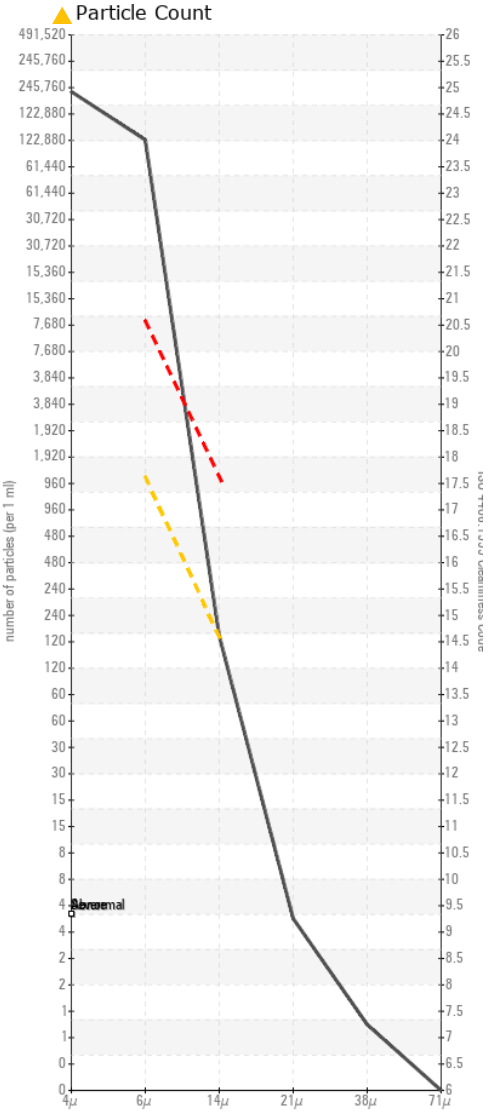
Non-ferrous Metals



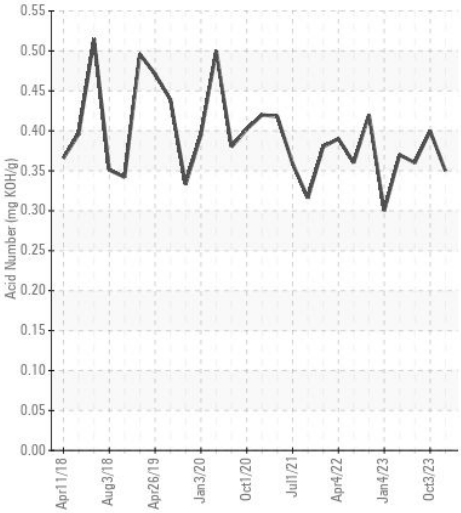
Viscosity @ 40°C



Particle Count



Acid Number



Certificate L2367

Laboratory	: WearCheck USA - 501 Madison Ave., Cary, NC 27513		
Sample No.	: KL0014099	**Recieved**	: 16 Jan 2024
Lab Number	: 06060991	**Diagnosed**	: 17 Jan 2024
Unique Number	: 10832373	**Diagnostician**	: Jonathan Hester
Test Package	: MOB 2		

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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