MOB II WEAR CHECK

OIL ANALYSIS REPORT

WEAR	SEVERE
CONTAMINATION	SEVERE
FLUID CONDITION	NORMAL

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

RECOMMENDATION

We advise that you check all areas where dirt can enter the system. The filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition. We were unable to perform a particle count due to a high concentration of particles present in this sample. Please note that this is a corrected copy for diagnostic comment updates.

WEAR

The iron level is severe. The copper level is abnormal.

CONTAMINATION

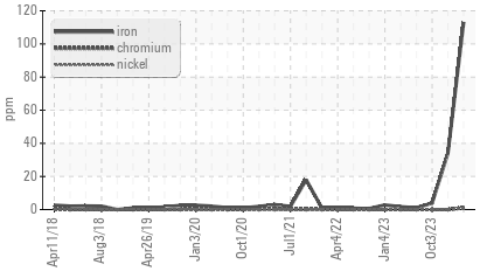
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. There is a high amount of visible silt present in the sample.

FLUID CONDITION

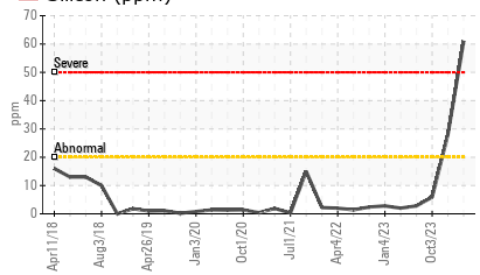
The AN level is acceptable for this fluid.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		KL0013776	KL0014099	KL0013078
Sample Date		Client Info		10 Apr 2024	09 Jan 2024	03 Oct 2023
Machine Age	hrs	Client Info		12916	12462	12320
Oil Age	hrs	Client Info		5565	5112	4970
Filter Age	hrs	Client Info		5565	5112	4970
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Filter Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				SEVERE	ABNORMAL	SEVERE
Iron	ppm	ASTM D5185m	>20	▲ 113	▲ 34	4
Chromium	ppm	ASTM D5185m	>10	1	0	0
Nickel	ppm	ASTM D5185m	>10	<1	0	0
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>10	● 13	● 6	<1
Lead	ppm	ASTM D5185m	>10	<1	0	0
Copper	ppm	ASTM D5185m	>75	▲ 98	14	9
Tin	ppm	ASTM D5185m	>10	2	0	<1
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	LIGHT	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>20	▲ 61	▲ 28	6
Potassium	ppm	ASTM D5185m	>20	5	<1	<1
Water		WC Method	>0.1	NEG	NEG	NEG
Particles >4µm		ASTM D7647		---	200528	125360
Particles >6µm		ASTM D7647	>1300	---	▲ 106645	▲ 23645
Particles >14µm		ASTM D7647	>160	---	▲ 162	49
Particles >21µm		ASTM D7647	>40	---	4	11
Particles >38µm		ASTM D7647	>10	---	1	1
Particles >71µm		ASTM D7647	>3	---	0	0
Oil Cleanliness		ISO 4406 (c)	>17/14	---	▲ 24/15	▲ 22/13
Silt	scalar	*Visual	NONE	▲ HEAVY	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		5	2	0
Boron	ppm	ASTM D5185m		5	3	0
Barium	ppm	ASTM D5185m		<1	0	0
Molybdenum	ppm	ASTM D5185m		14	11	1
Manganese	ppm	ASTM D5185m		1	<1	<1
Magnesium	ppm	ASTM D5185m		1	0	2
Calcium	ppm	ASTM D5185m		305	124	42
Phosphorus	ppm	ASTM D5185m		274	298	283
Zinc	ppm	ASTM D5185m		257	338	313
Sulfur	ppm	ASTM D5185m		1480	1335	1271
Acid Number (AN)	mg KOH/g	ASTM D8045		0.26	0.35	0.40
Visc @ 40°C	cSt	ASTM D445		46.2	44.9	43.7

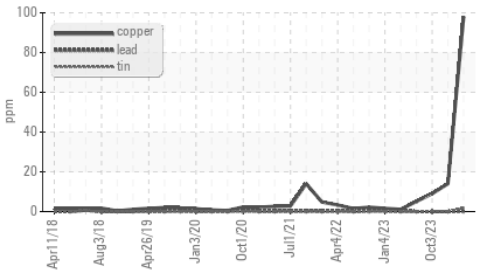
Ferrous Alloys



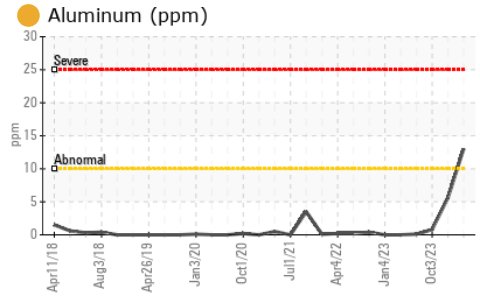
Silicon (ppm)



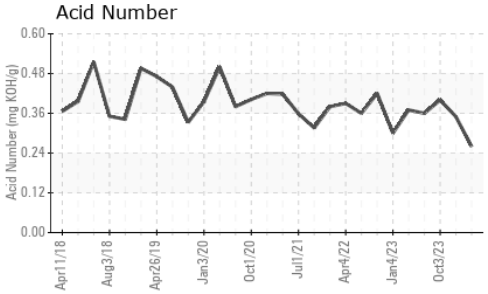
Non-ferrous Metals



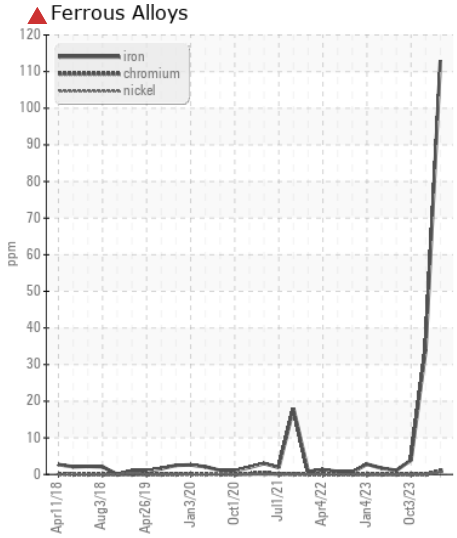
Aluminum (ppm)



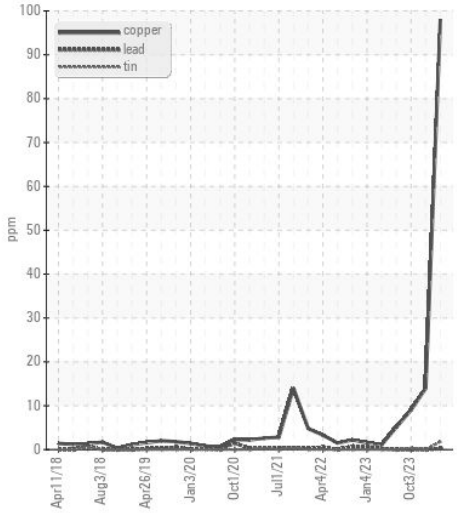
Acid Number



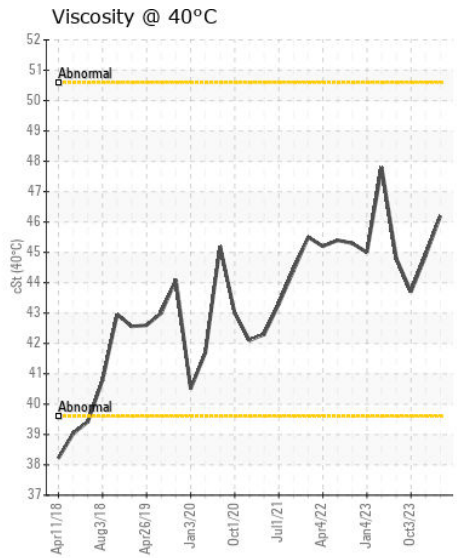
Ferrous Alloys



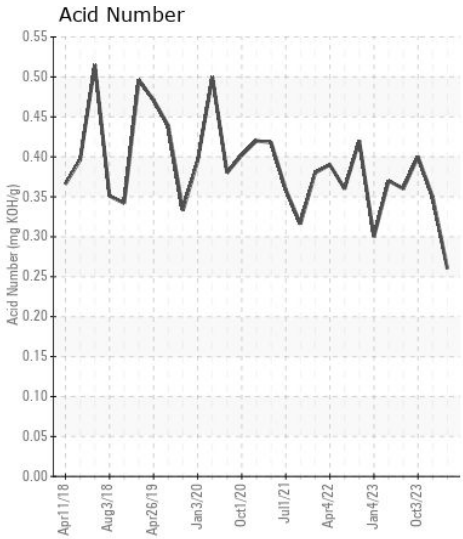
Non-ferrous Metals



Viscosity @ 40°C



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KL0013776
Lab Number : 06150279
Unique Number : 10980357
Test Package : MOB 2

Received : 16 Apr 2024
Tested : 19 Apr 2024
Diagnosed : 19 Apr 2024 - Doug Bogart

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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