



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
KOMATSU PC50HR2 EX-47
Component
Hydraulic System
Fluid
TDH FLUID SAE 75W80 (--- QTS)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		DC0035111	DC0006537	DCM1039189
Sample Date		Client Info		07 Nov 2023	18 Jun 2020	30 Dec 2015
Machine Age	hrs	Client Info		2196	1350	4518
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Not Changd	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>20	26	19	18
Chromium	ppm	ASTM D5185m	>10	1	<1	<1
Nickel	ppm	ASTM D5185m	>10	1	1	0
Titanium	ppm	ASTM D5185m		1	<1	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>10	6	5	4
Lead	ppm	ASTM D5185m	>10	42	49	64
Copper	ppm	ASTM D5185m	>75	49	40	45
Tin	ppm	ASTM D5185m	>10	1	0	0
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

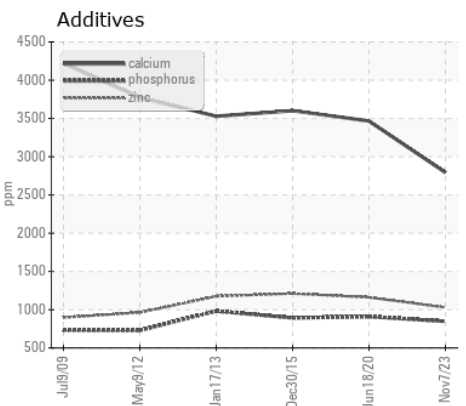
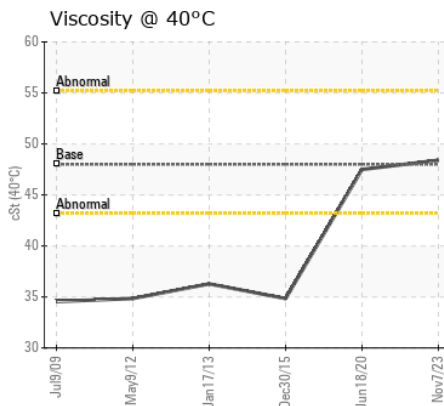
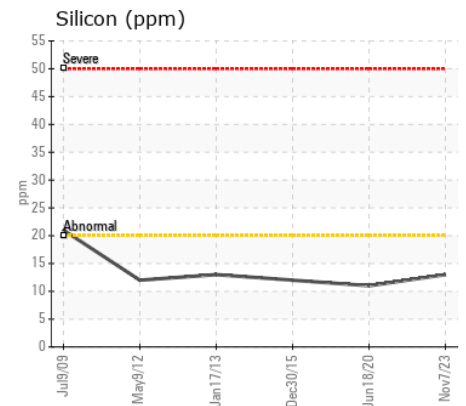
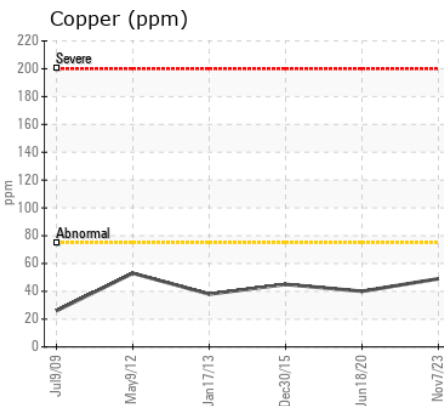
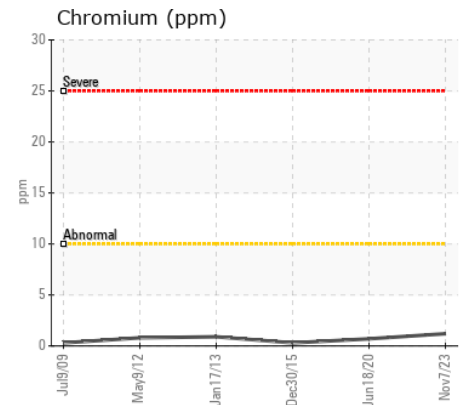
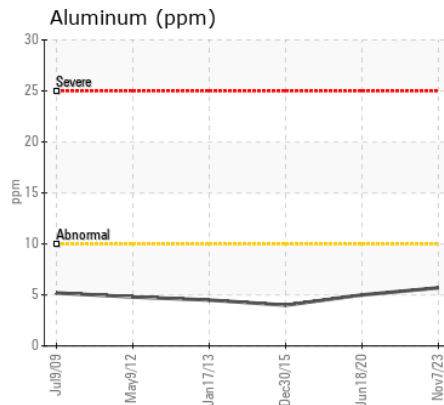
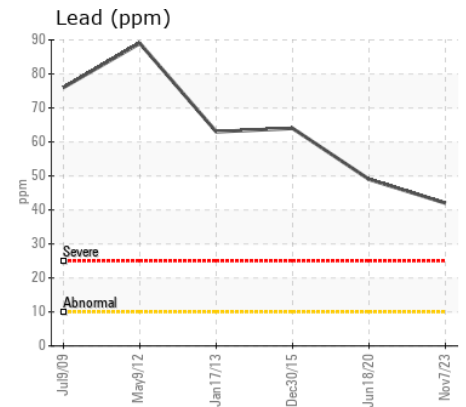
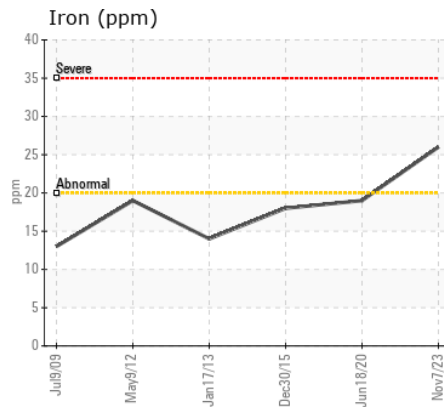
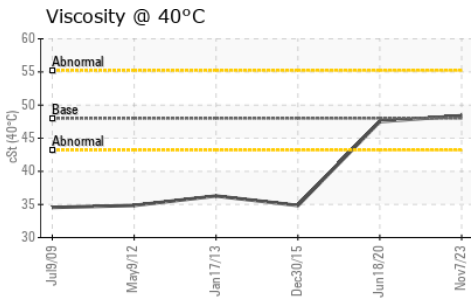
There is no indication of any contamination in the component.

Silicon	ppm	ASTM D5185m	>20	13	11	12
Potassium	ppm	ASTM D5185m	>20	5	15	5
Water		WC Method	>0.1	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	LIGHT	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 condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		8	8	5
Boron	ppm	ASTM D5185m	10	38	42	64
Barium	ppm	ASTM D5185m	10	2	<1	0
Molybdenum	ppm	ASTM D5185m	10	3	3	1
Manganese	ppm	ASTM D5185m		1	<1	<1
Magnesium	ppm	ASTM D5185m	100	16	17	15
Calcium	ppm	ASTM D5185m	3500	2793	3466	3601
Phosphorus	ppm	ASTM D5185m	1150	848	910	893
Zinc	ppm	ASTM D5185m	1150	1029	1161	1211
Sulfur	ppm	ASTM D5185m	5000	5084	4590	5084
Visc @ 40°C	cSt	ASTM D445	48	48.4	47.5	34.84



Certificate L2367

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

Sample No. : DC0035111

Lab Number : 06103962

Unique Number : 10902192

Test Package : MOB 1

Received : 28 Feb 2024

Tested : 29 Feb 2024

Diagnosed : 01 Mar 2024 - Don Baldrige

ROSS CONTRACTING INC.

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MOUNT AIRY, MD

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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)