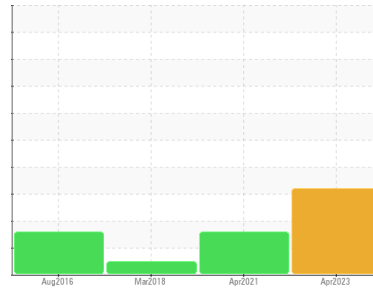




OIL ANALYSIS REPORT

Sample Rating Trend



DIRT



Machine Id
KOMATSU PC138 EX-103 (S/N 27656)
 Component
Hydraulic System
 Fluid
MOBIL 10W (--- GAL)

DIAGNOSIS

▲ Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

▲ Wear

The iron level is abnormal. The chromium level is abnormal.

▲ Contamination

Elemental level of silicon (Si) above normal indicating ingress of seal material.

Fluid Condition

The condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC0588354	WC0317755	WCMFC02962
Sample Date	Client Info		05 Apr 2023	02 Apr 2021	27 Mar 2018
Machine Age	hrs	Client Info	4311	3574	2110
Oil Age	hrs	Client Info	2000	1000	21110
Oil Changed	Client Info		Not Chngd	Not Chngd	Not Chngd
Sample Status			ABNORMAL	ABNORMAL	NORMAL

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >20	▲ 35	▲ 32	13
Chromium	ppm	ASTM D5185m >10	▲ 16	▲ 12	8
Nickel	ppm	ASTM D5185m >10	0	0	0
Titanium	ppm	ASTM D5185m	<1	<1	0
Silver	ppm	ASTM D5185m	0	0	0
Aluminum	ppm	ASTM D5185m >10	7	4	6
Lead	ppm	ASTM D5185m >10	6	6	7
Copper	ppm	ASTM D5185m >75	16	15	18
Tin	ppm	ASTM D5185m >10	<1	0	3
Antimony	ppm	ASTM D5185m	---	0	0
Vanadium	ppm	ASTM D5185m	0	0	0
Cadmium	ppm	ASTM D5185m	0	0	0

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	6	6	7
Barium	ppm	ASTM D5185m	0	0	0
Molybdenum	ppm	ASTM D5185m	3	2	2
Manganese	ppm	ASTM D5185m	<1	<1	<1
Magnesium	ppm	ASTM D5185m	102	104	20
Calcium	ppm	ASTM D5185m	2317	2061	2393
Phosphorus	ppm	ASTM D5185m	666	610	560
Zinc	ppm	ASTM D5185m	860	689	672
Sulfur	ppm	ASTM D5185m	6544	5074	5826

CONTAMINANTS

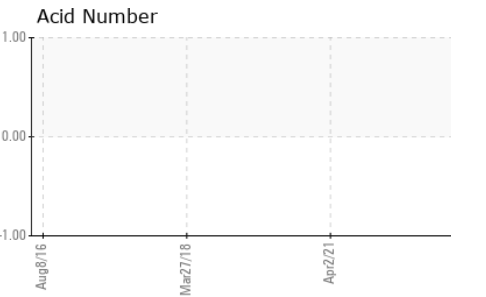
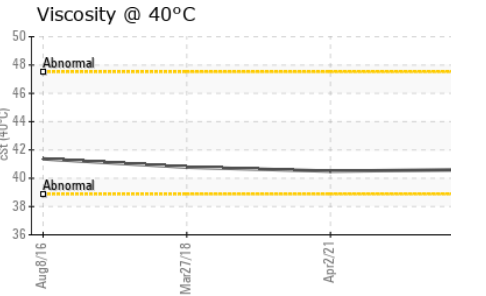
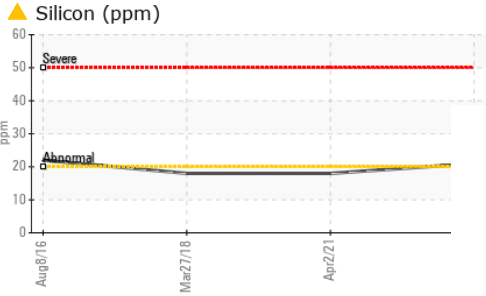
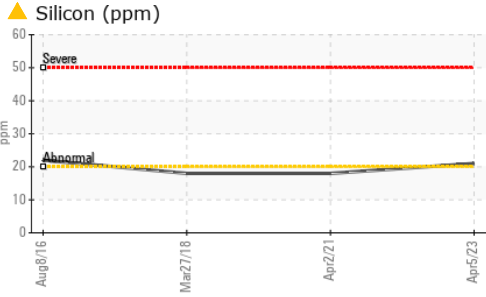
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >20	▲ 21	18	18
Sodium	ppm	ASTM D5185m	2	5	<1
Potassium	ppm	ASTM D5185m >20	4	0	0

VISUAL

	method	limit/base	current	history1	history2
White Metal	scalar	*Visual NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual NONE	NONE	NONE	NONE
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
Free Water	scalar	*Visual	NEG	NEG	NEG



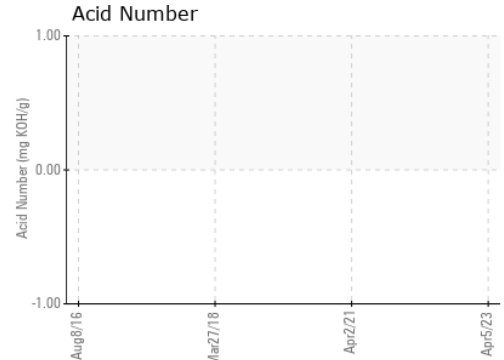
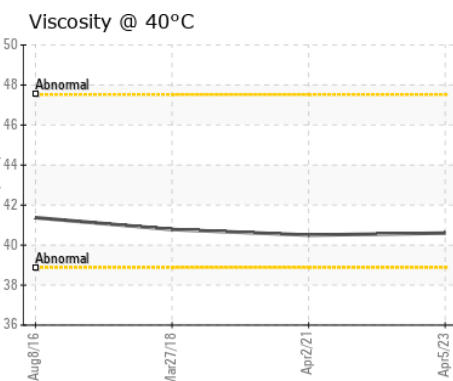
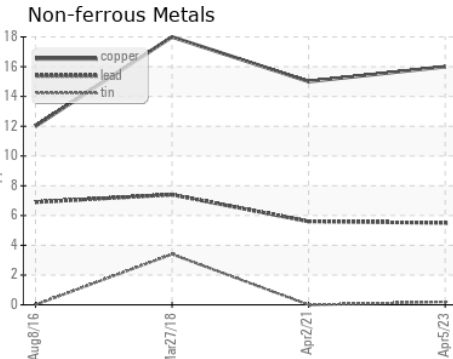
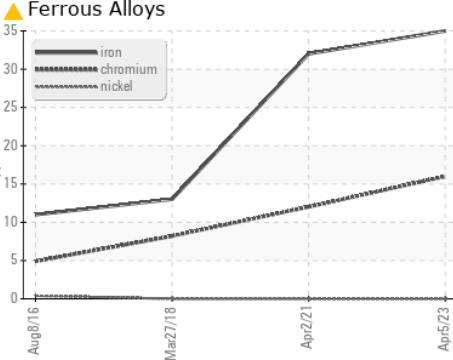
OIL ANALYSIS REPORT



FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	40.6	40.5	40.78

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color				no image	no image
Bottom				no image	no image

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0588354 **Received** : 18 Jul 2023
Lab Number : **05901736** **Diagnosed** : 20 Jul 2023
Unique Number : 10563092 **Diagnostician** : Don Baldrige
Test Package : MOB1+ (Additional Tests: PrtCount, TAN Man)

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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