



PROBLEM SUMMARY

Sample Rating Trend

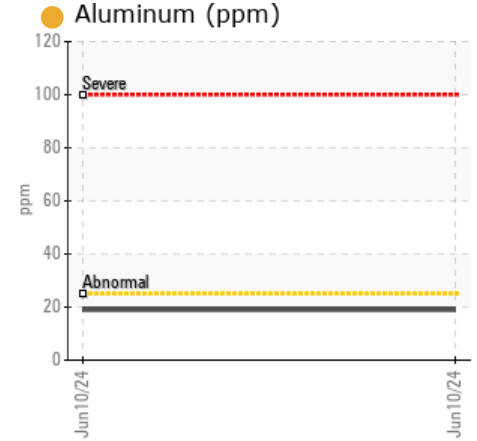
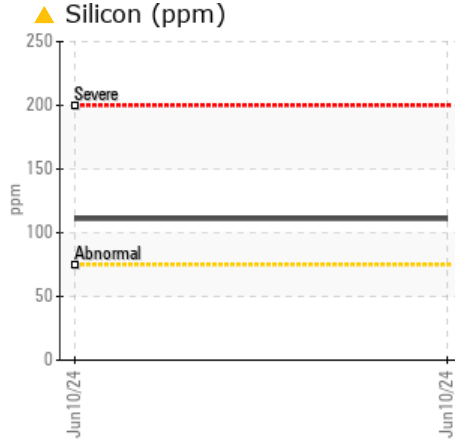
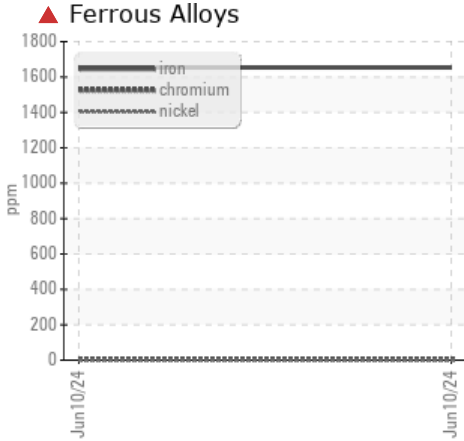


WEAR



Area
MINING [ME128]
 Machine Id
ME-128 KOMATSU WA500-8 A96257
 Component
Front Differential
 Fluid
Ax080 (--- GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

We advise that you check all areas where dirt can enter the system. We recommend that you drain the oil from the component if this has not already been done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS

Sample Status				SEVERE	---	---
Iron	ppm	ASTM D5185m	>500	▲ 1654	---	---
Silicon	ppm	ASTM D5185m	>75	▲ 111	---	---

Customer Id: COVCRA
 Sample No.: WC0950170
 Lab Number: 06215205
 Test Package: CONST



To manage this report scan the QR code

To discuss the diagnosis or test data:
 Sean Felton +1 919-379-4092
sfelton@wearcheckusa.com

To change component or sample information:
 Customer Service +1 1-800-237-1369
customerservice@wearcheck.com

RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Inspect Wear Source	---	---	?	We advise that you inspect for the source(s) of wear.
Change Fluid	---	---	?	We recommend that you drain the oil from the component if this has not already been done.
Resample	---	---	?	We recommend an early resample to monitor this condition.
Check Dirt Access	---	---	?	We advise that you check all areas where dirt can enter the system.

HISTORICAL DIAGNOSIS



OIL ANALYSIS REPORT

Sample Rating Trend

WEAR



Area
MINING [ME128]
 Machine Id
ME-128 KOMATSU WA500-8 A96257
 Component
Front Differential
 Fluid
Ax080 (--- GAL)



DIAGNOSIS

▲ Recommendation

We advise that you check all areas where dirt can enter the system. We recommend that you drain the oil from the component if this has not already been done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

▲ Wear

Gear wear is indicated.

▲ Contamination

Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Fluid Condition

The oil is no longer serviceable as a result of the abnormal and/or severe wear.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC0950170	---	---
Sample Date	Client Info		10 Jun 2024	---	---
Machine Age	hrs	Client Info	15122	---	---
Oil Age	hrs	Client Info	0	---	---
Oil Changed	Client Info		Not Chngd	---	---
Sample Status			SEVERE	---	---

CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>.2	NEG	---	---

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>500	▲ 1654	---
Chromium	ppm	ASTM D5185m	>10	5	---
Nickel	ppm	ASTM D5185m	>10	1	---
Titanium	ppm	ASTM D5185m		1	---
Silver	ppm	ASTM D5185m		0	---
Aluminum	ppm	ASTM D5185m	>25	● 19	---
Lead	ppm	ASTM D5185m	>25	1	---
Copper	ppm	ASTM D5185m	>100	59	---
Tin	ppm	ASTM D5185m	>10	3	---
Vanadium	ppm	ASTM D5185m		0	---
Cadmium	ppm	ASTM D5185m		<1	---

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		159	---
Barium	ppm	ASTM D5185m		<1	---
Molybdenum	ppm	ASTM D5185m		4	---
Manganese	ppm	ASTM D5185m		12	---
Magnesium	ppm	ASTM D5185m		14	---
Calcium	ppm	ASTM D5185m		3076	---
Phosphorus	ppm	ASTM D5185m		1102	---
Zinc	ppm	ASTM D5185m		1026	---
Sulfur	ppm	ASTM D5185m		6707	---

CONTAMINANTS

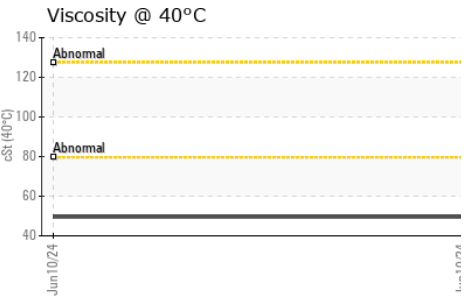
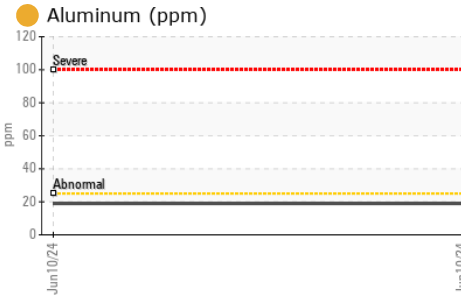
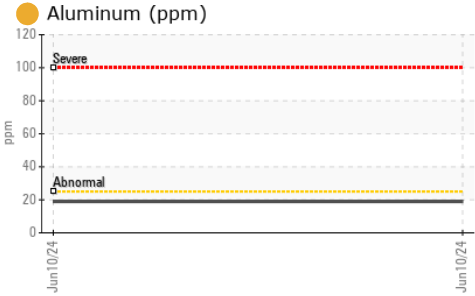
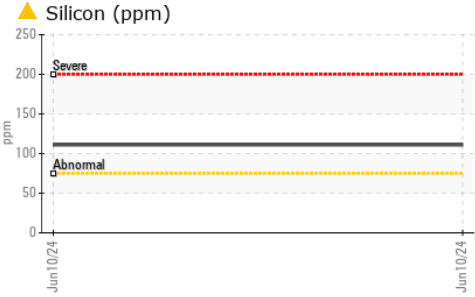
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>75	▲ 111	---
Sodium	ppm	ASTM D5185m		2	---
Potassium	ppm	ASTM D5185m	>20	5	---

VISUAL

	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	---
Emulsified Water	scalar	*Visual	>.2	NEG	---
Free Water	scalar	*Visual		NEG	---



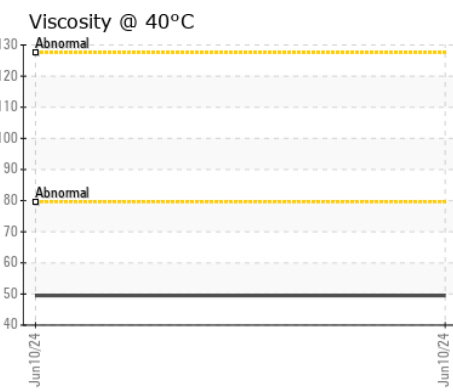
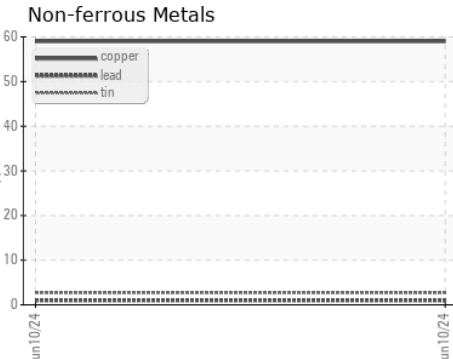
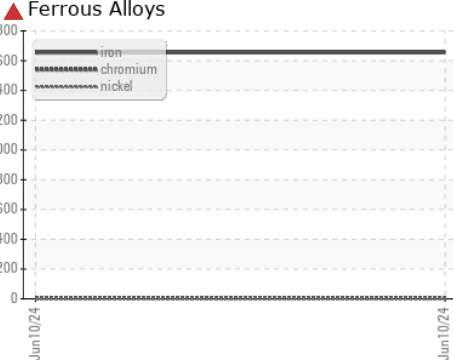
OIL ANALYSIS REPORT



FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	49.5	---	---

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

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0950170 **Received** : 19 Jun 2024
Lab Number : 06215205 **Tested** : 20 Jun 2024
Unique Number : 11088069 **Diagnosed** : 21 Jun 2024 - Sean Felton
Test Package : CONST

COVIA - CRANE - 203
 10750 FM 1233
 CRANE, TX
 US 79731
 Contact: Jeremy Moore
 jeremy.moore@coviacorp.com
 T: (816)721-2387
 F:

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)