



# PROBLEM SUMMARY

Sample Rating Trend

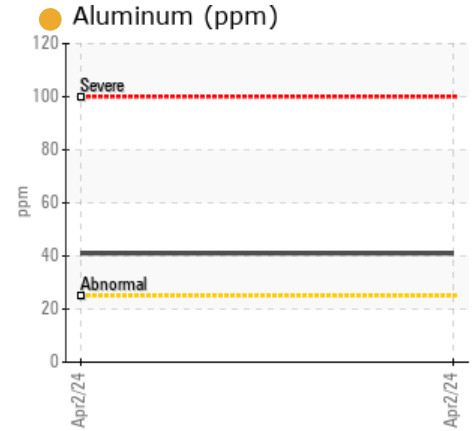
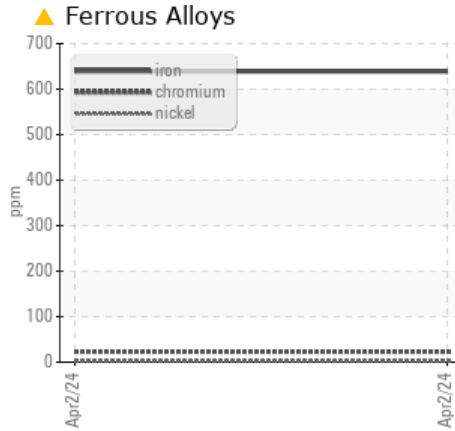
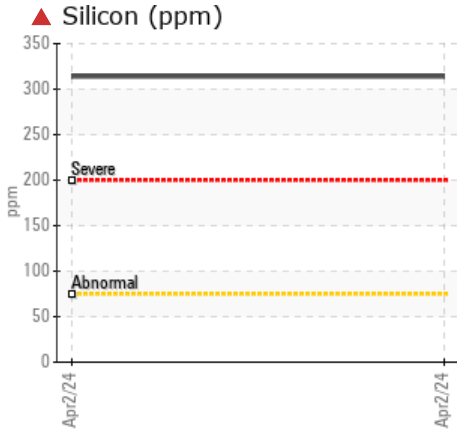


DIRT



Area  
**MINING**  
 Machine Id  
**ME-30 KOMATSU PC360LC A35957**  
 Component  
**Right Final Drive**  
 Fluid  
**SHELL Spirax S4 CX 30 (--- GAL)**

## COMPONENT CONDITION SUMMARY



## RECOMMENDATION

We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

## PROBLEMATIC TEST RESULTS

Sample Status				SEVERE	---	---
Iron	ppm	ASTM D5185m	>500	▲ 639	---	---
Chromium	ppm	ASTM D5185m	>10	▲ 23	---	---
Silicon	ppm	ASTM D5185m	>75	▲ 314	---	---

Customer Id: COVMEN  
 Sample No.: WC0919967  
 Lab Number: 06141823  
 Test Package: CONST



To manage this report scan the QR code

To discuss the diagnosis or test data:  
 Don Baldrige +1  
[don.b505@comcast.net](mailto:don.b505@comcast.net)

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

## RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
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



DIRT



Area

**MINING**

Machine Id

**ME-30 KOMATSU PC360LC A35957**

Component

**Right Final Drive**

Fluid

**SHELL Spirax S4 CX 30 (--- GAL)**

## DIAGNOSIS

### ▲ Recommendation

We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. 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 due to the presence of contaminants.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>WC0919967</b>	---	---
Sample Date	Client Info		<b>02 Apr 2024</b>	---	---
Machine Age	hrs	Client Info	<b>3356</b>	---	---
Oil Age	hrs	Client Info	<b>100</b>	---	---
Oil Changed	Client Info		<b>Changed</b>	---	---
Sample Status			<b>SEVERE</b>	---	---

## CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>0.2	<b>NEG</b>	---	---

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>500	▲ <b>639</b>	---
Chromium	ppm	ASTM D5185m	>10	▲ <b>23</b>	---
Nickel	ppm	ASTM D5185m	>10	<b>2</b>	---
Titanium	ppm	ASTM D5185m		<b>41</b>	---
Silver	ppm	ASTM D5185m		<b>0</b>	---
Aluminum	ppm	ASTM D5185m	>25	● <b>41</b>	---
Lead	ppm	ASTM D5185m	>25	<b>0</b>	---
Copper	ppm	ASTM D5185m	>50	<b>26</b>	---
Tin	ppm	ASTM D5185m	>10	<b>0</b>	---
Vanadium	ppm	ASTM D5185m		<b>3</b>	---
Cadmium	ppm	ASTM D5185m		<b>0</b>	---

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		<b>8</b>	---
Barium	ppm	ASTM D5185m		<b>130</b>	---
Molybdenum	ppm	ASTM D5185m		<b>5</b>	---
Manganese	ppm	ASTM D5185m		<b>6</b>	---
Magnesium	ppm	ASTM D5185m		<b>31</b>	---
Calcium	ppm	ASTM D5185m		<b>4511</b>	---
Phosphorus	ppm	ASTM D5185m		<b>1040</b>	---
Zinc	ppm	ASTM D5185m		<b>1261</b>	---
Sulfur	ppm	ASTM D5185m		<b>9084</b>	---

## CONTAMINANTS

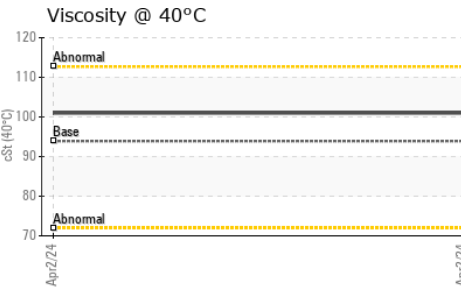
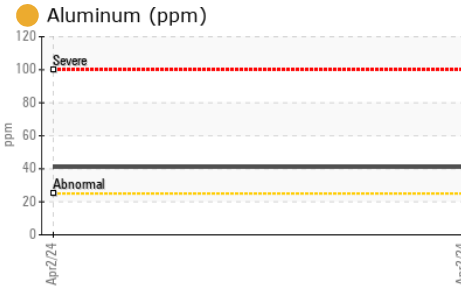
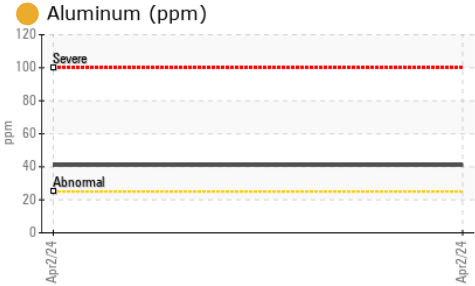
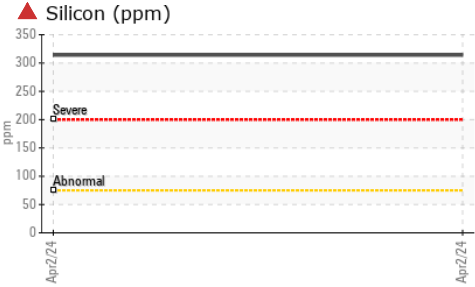
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>75	▲ <b>314</b>	---
Sodium	ppm	ASTM D5185m		<b>6</b>	---
Potassium	ppm	ASTM D5185m	>20	<b>44</b>	---

## VISUAL

	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	<b>NONE</b>	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	---
Precipitate	scalar	*Visual	NONE	<b>NONE</b>	---
Silt	scalar	*Visual	NONE	<b>NONE</b>	---
Debris	scalar	*Visual	NONE	<b>NONE</b>	---
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	---
Appearance	scalar	*Visual	NORML	<b>NORML</b>	---
Odor	scalar	*Visual	NORML	<b>NORML</b>	---
Emulsified Water	scalar	*Visual	>0.2	<b>NEG</b>	---
Free Water	scalar	*Visual		<b>NEG</b>	---



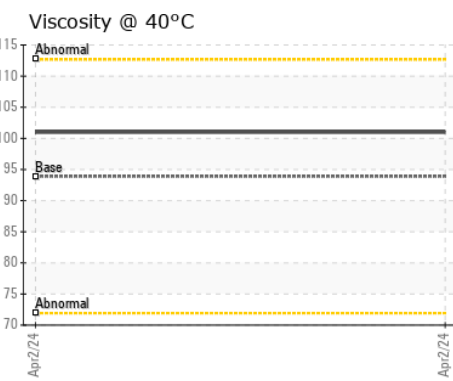
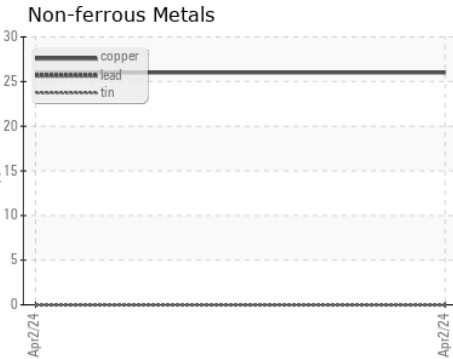
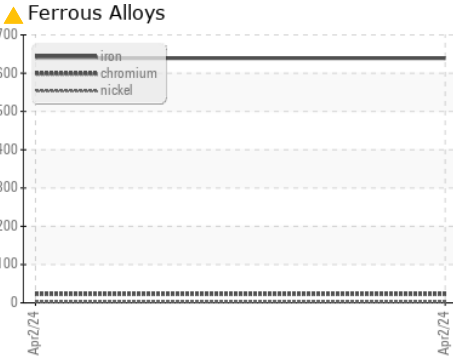
# OIL ANALYSIS REPORT



FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D445	93.9	<b>101</b>	---	---

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.** : WC0919967      **Received** : 08 Apr 2024  
**Lab Number** : **06141823**      **Tested** : 09 Apr 2024  
**Unique Number** : 10966631      **Diagnosed** : 10 Apr 2024 - Don Baldrige  
**Test Package** : CONST

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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