



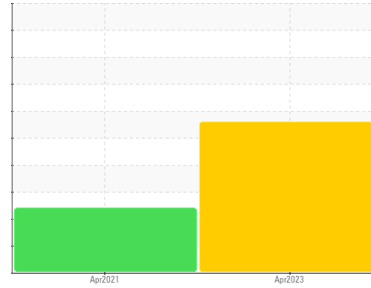
# OIL ANALYSIS REPORT

Sample Rating Trend

WATER



Machine Id  
**KOMATSU PC138 EX-103 (S/N 27656)**  
 Component  
**Swing Drive**  
 Fluid  
**MOBIL MOBILTRANS HD 30 (--- GAL)**



## DIAGNOSIS

### Recommendation

We advise that you check for the source of water entry. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

### Wear

All component wear rates are normal.

### Contamination

Elemental level of silicon (Si) above normal indicating ingress of seal material. There is a high concentration of water present in the oil.

### 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>WC0588353</b>	WC0317757	---
Sample Date	Client Info		<b>05 Apr 2023</b>	02 Apr 2021	---
Machine Age	hrs	Client Info	<b>4311</b>	3574	---
Oil Age	hrs	Client Info	<b>4311</b>	1000	---
Oil Changed	Client Info		<b>Changed</b>	Not Changd	---
Sample Status			<b>SEVERE</b>	ABNORMAL	---

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >400	<b>118</b>	55	---
Chromium	ppm	ASTM D5185m >10	<b>2</b>	1	---
Nickel	ppm	ASTM D5185m >10	<b>0</b>	0	---
Titanium	ppm	ASTM D5185m	<b>19</b>	2	---
Silver	ppm	ASTM D5185m	<b>0</b>	<1	---
Aluminum	ppm	ASTM D5185m >25	<b>4</b>	2	---
Lead	ppm	ASTM D5185m >50	<b>0</b>	0	---
Copper	ppm	ASTM D5185m >200	<b>180</b>	94	---
Tin	ppm	ASTM D5185m >10	<b>10</b>	0	---
Antimony	ppm	ASTM D5185m >5	<b>---</b>	1	---
Vanadium	ppm	ASTM D5185m	<b>&lt;1</b>	0	---
Cadmium	ppm	ASTM D5185m	<b>0</b>	0	---

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	<b>0</b>	15	---
Barium	ppm	ASTM D5185m	<b>22</b>	2	---
Molybdenum	ppm	ASTM D5185m	<b>1</b>	<1	---
Manganese	ppm	ASTM D5185m	<b>2</b>	1	---
Magnesium	ppm	ASTM D5185m	<b>20</b>	10	---
Calcium	ppm	ASTM D5185m	<b>4125</b>	3454	---
Phosphorus	ppm	ASTM D5185m	<b>936</b>	765	---
Zinc	ppm	ASTM D5185m	<b>1163</b>	922	---
Sulfur	ppm	ASTM D5185m	<b>9813</b>	5042	---

## CONTAMINANTS

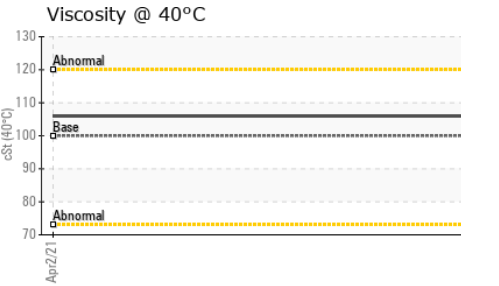
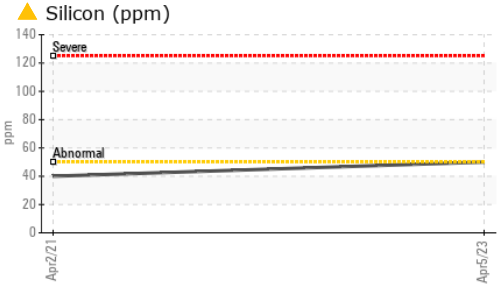
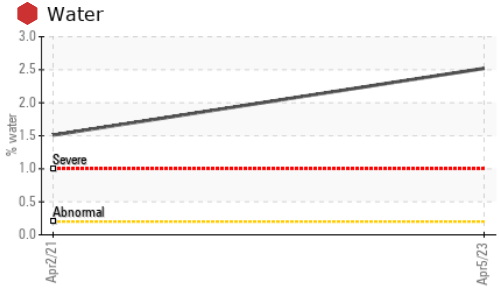
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >50	<b>▲ 50</b>	40	---
Sodium	ppm	ASTM D5185m	<b>&lt;1</b>	1	---
Potassium	ppm	ASTM D5185m >20	<b>1</b>	0	---
Water	%	ASTM D6304 >0.2	<b>● 2.52</b>	<b>▲ 1.51</b>	---
ppm Water	ppm	ASTM D6304 >2000	<b>● 25200</b>	<b>▲ 15100</b>	---

## VISUAL

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



# OIL ANALYSIS REPORT



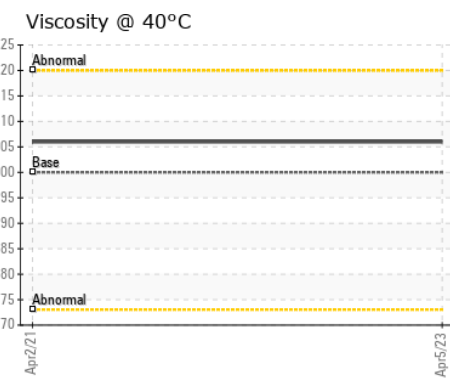
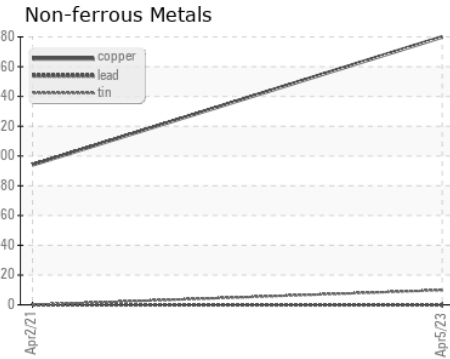
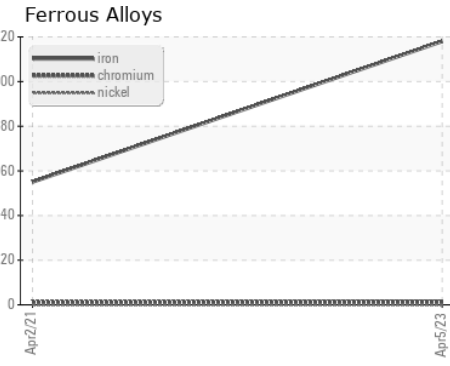
### FLUID PROPERTIES

	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 100	<b>106</b>	106	---

### 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.** : WC0588353      **Received** : 18 Jul 2023  
**Lab Number** : 05901592      **Diagnosed** : 20 Jul 2023  
**Unique Number** : 10562948      **Diagnostician** : Don Baldrige  
**Test Package** : MOB1+ ( Additional Tests: KF, PrtCount )

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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