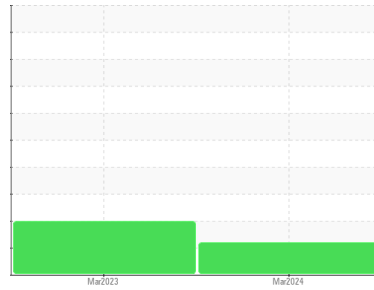




# OIL ANALYSIS REPORT

## Sample Rating Trend



ISO



Machine Id

**8429793 (S/N 1456)**

Component

**Compressor**

Fluid

**KAESER SIGMA (OEM) M-460 (--- QTS)**

### DIAGNOSIS

#### ▲ Recommendation

No corrective action is recommended at this time. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

#### ▲ Contamination

There is a high amount of particulates present in the oil.

#### Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			<b>KCPA016970</b>	KCPA001527	---
Sample Date	Client Info			<b>28 Mar 2024</b>	20 Mar 2023	---
Machine Age	hrs	Client Info		<b>6575</b>	3281	---
Oil Age	hrs	Client Info		<b>3955</b>	0	---
Oil Changed	Client Info			<b>Changed</b>	N/A	---
Sample Status				<b>ABNORMAL</b>	ABNORMAL	---

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	<b>&lt;1</b>	<1	---
Chromium	ppm	ASTM D5185m	>10	<b>&lt;1</b>	0	---
Nickel	ppm	ASTM D5185m	>3	<b>&lt;1</b>	0	---
Titanium	ppm	ASTM D5185m	>3	<b>&lt;1</b>	0	---
Silver	ppm	ASTM D5185m	>2	<b>0</b>	0	---
Aluminum	ppm	ASTM D5185m	>10	<b>2</b>	0	---
Lead	ppm	ASTM D5185m	>10	<b>&lt;1</b>	0	---
Copper	ppm	ASTM D5185m	>50	<b>8</b>	7	---
Tin	ppm	ASTM D5185m	>10	<b>&lt;1</b>	0	---
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	---
Cadmium	ppm	ASTM D5185m		<b>&lt;1</b>	0	---

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	<b>0</b>	0	---
Barium	ppm	ASTM D5185m	90	<b>2</b>	0	---
Molybdenum	ppm	ASTM D5185m	0	<b>&lt;1</b>	0	---
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	---
Magnesium	ppm	ASTM D5185m	100	<b>28</b>	44	---
Calcium	ppm	ASTM D5185m	0	<b>4</b>	0	---
Phosphorus	ppm	ASTM D5185m	0	<b>3</b>	18	---
Zinc	ppm	ASTM D5185m	0	<b>8</b>	7	---
Sulfur	ppm	ASTM D5185m	23500	<b>21167</b>	16557	---

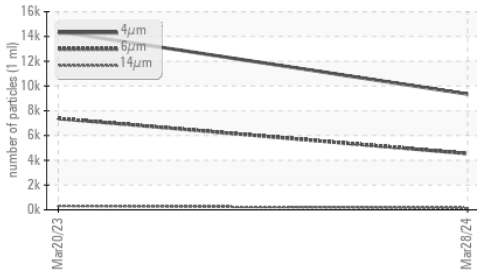
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<b>&lt;1</b>	0	---
Sodium	ppm	ASTM D5185m		<b>6</b>	8	---
Potassium	ppm	ASTM D5185m	>20	<b>3</b>	3	---
Water	%	ASTM D6304	>0.05	<b>0.012</b>	0.010	---
ppm Water	ppm	ASTM D6304	>500	<b>121</b>	108.0	---

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		<b>9347</b>	14391	---
Particles >6µm		ASTM D7647	>1300	▲ <b>4541</b>	▲ 7370	---
Particles >14µm		ASTM D7647	>80	▲ <b>140</b>	▲ 305	---
Particles >21µm		ASTM D7647	>20	<b>13</b>	▲ 41	---
Particles >38µm		ASTM D7647	>4	<b>1</b>	▲ 5	---
Particles >71µm		ASTM D7647	>3	<b>0</b>	0	---
Oil Cleanliness		ISO 4406 (c)	>--/17/13	▲ <b>20/19/14</b>	▲ 21/20/15	---

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	<b>0.36</b>	0.23	---

# OIL ANALYSIS REPORT

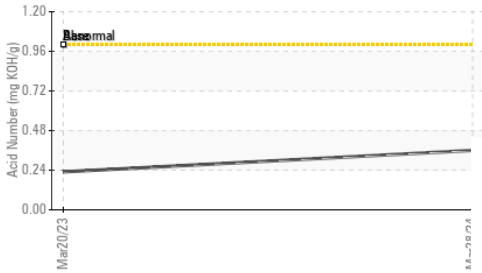
## ▲ Particle Trend



## Water (KF)



## Acid Number



## Water (KF)



## Viscosity @ 40°C



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	LIGHT
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.05	NEG	---
Free Water	scalar	*Visual		NEG	---

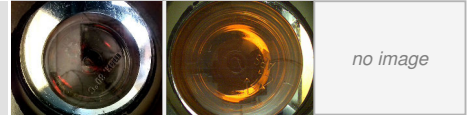
FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	45	49.7	43.3

SAMPLE IMAGES	method	limit/base	current	history1	history2
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Color

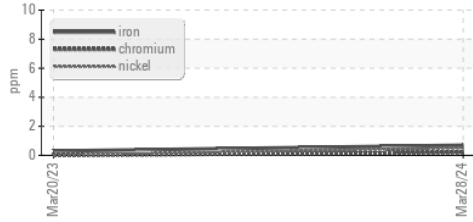


Bottom

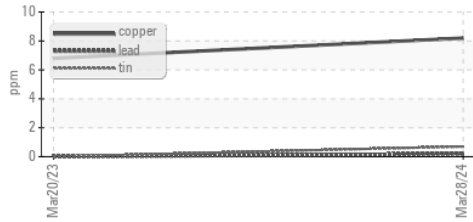


## GRAPHS

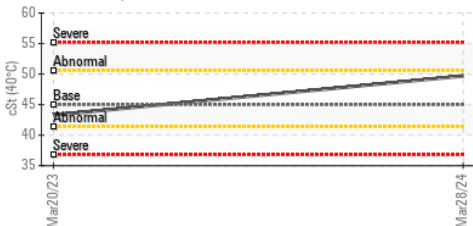
### Ferrous Alloys



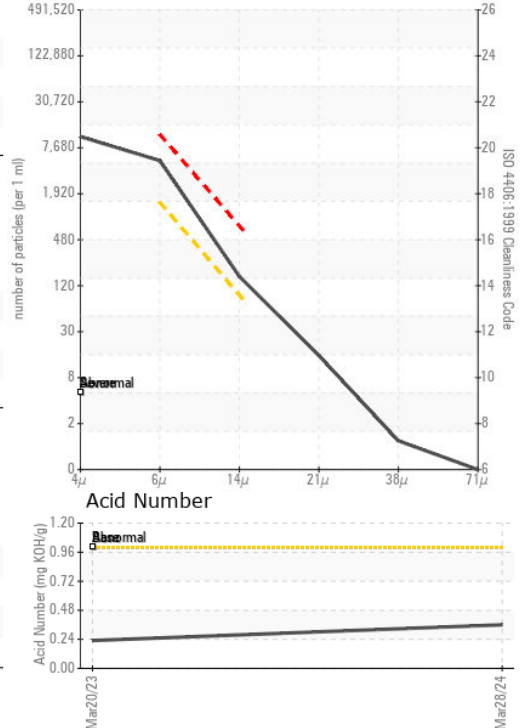
### Non-ferrous Metals



### Viscosity @ 40°C



### ▲ Particle Count



### Acid Number



Certificate L2367

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

Sample No. : KCPA016970

Lab Number : 06138068

Unique Number : 10962876

Test Package : IND 2 ( 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)

Received : 03 Apr 2024

Tested : 04 Apr 2024

Diagnosed : 05 Apr 2024 - Don Baldrige

THE ORIGINAL MATTRESS FACTORY

1335 CAPITAL CIR

MARIETTA, GA

US 30067

Contact: Service Manager

T:

F: