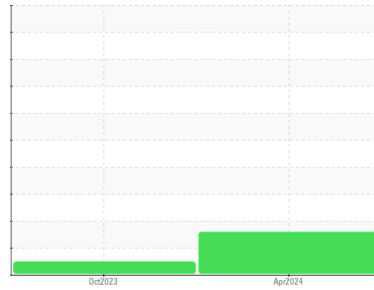




# OIL ANALYSIS REPORT

## Sample Rating Trend



ISO



Machine Id

**KAESER 6208390**

Component

**Compressor**

Fluid

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

### DIAGNOSIS

#### ▲ Recommendation

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 acceptable for the time in service.

### SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>KCPA013704</b>	KCPA007844	---
Sample Date	Client Info		<b>22 Apr 2024</b>	18 Oct 2023	---
Machine Age	hrs	Client Info	<b>34181</b>	31368	---
Oil Age	hrs	Client Info	<b>0</b>	0	---
Oil Changed	Client Info		<b>Changed</b>	N/A	---
Sample Status			<b>ABNORMAL</b>	NORMAL	---

### WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >50	<b>0</b>	0	---
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>&lt;1</b>	0	---
Aluminum	ppm	ASTM D5185m >10	<b>3</b>	<1	---
Lead	ppm	ASTM D5185m >10	<b>&lt;1</b>	0	---
Copper	ppm	ASTM D5185m >50	<b>2</b>	6	---
Tin	ppm	ASTM D5185m >10	<b>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>89</b>	36	---
Molybdenum	ppm	ASTM D5185m 0	<b>&lt;1</b>	0	---
Manganese	ppm	ASTM D5185m	<b>&lt;1</b>	0	---
Magnesium	ppm	ASTM D5185m 100	<b>83</b>	64	---
Calcium	ppm	ASTM D5185m 0	<b>0</b>	1	---
Phosphorus	ppm	ASTM D5185m 0	<b>5</b>	<1	---
Zinc	ppm	ASTM D5185m 0	<b>0</b>	0	---
Sulfur	ppm	ASTM D5185m 23500	<b>20089</b>	20617	---

### CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	<b>1</b>	2	---
Sodium	ppm	ASTM D5185m	<b>35</b>	14	---
Potassium	ppm	ASTM D5185m >20	<b>10</b>	3	---
Water	%	ASTM D6304 >0.05	<b>0.025</b>	0.027	---
ppm Water	ppm	ASTM D6304 >500	<b>250</b>	274.2	---

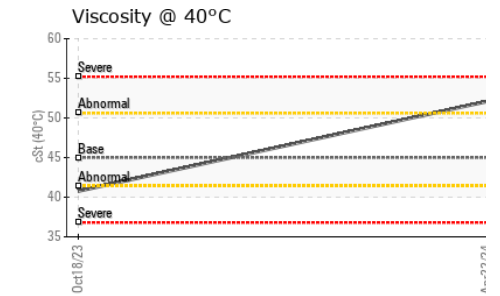
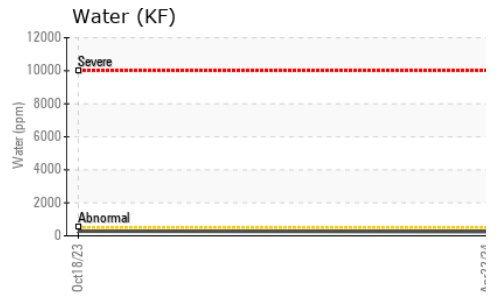
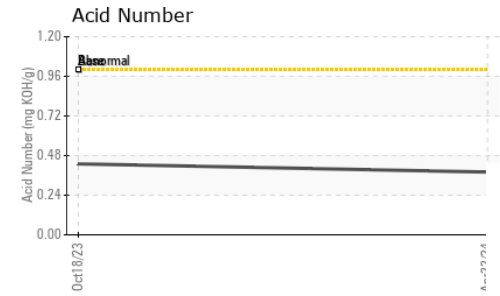
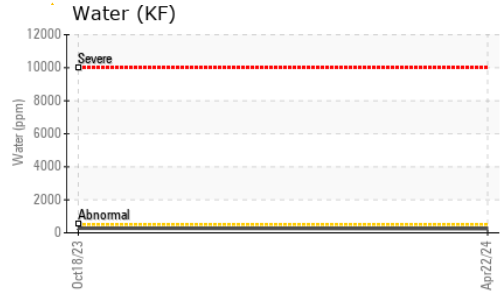
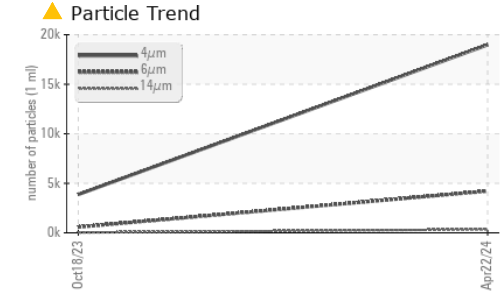
### FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647		<b>18986</b>	3870	---
Particles >6µm	ASTM D7647	>1300	▲ <b>4211</b>	579	---
Particles >14µm	ASTM D7647	>80	▲ <b>339</b>	29	---
Particles >21µm	ASTM D7647	>20	▲ <b>91</b>	6	---
Particles >38µm	ASTM D7647	>4	<b>3</b>	0	---
Particles >71µm	ASTM D7647	>3	<b>0</b>	0	---
Oil Cleanliness	ISO 4406 (c)	>--/17/13	▲ <b>21/19/16</b>	19/16/12	---

### FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 1.0	<b>0.38</b>	0.43	---

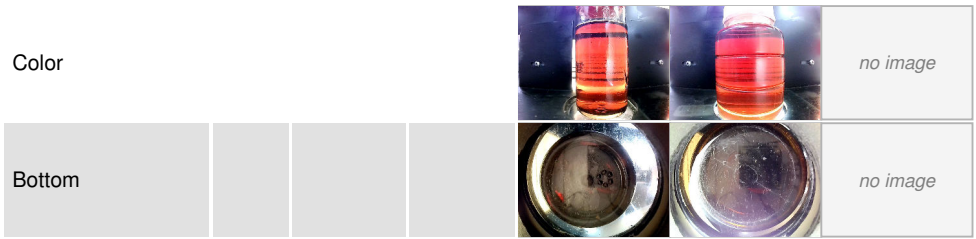
# OIL ANALYSIS REPORT



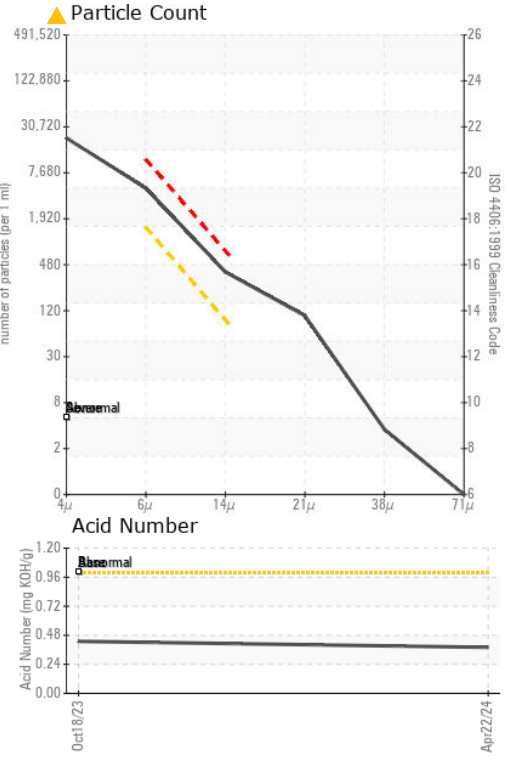
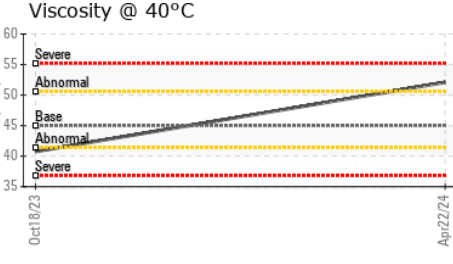
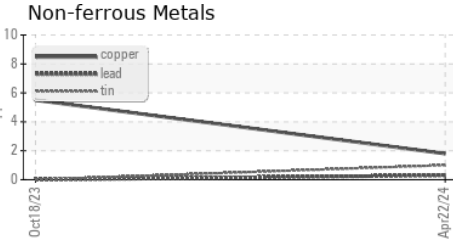
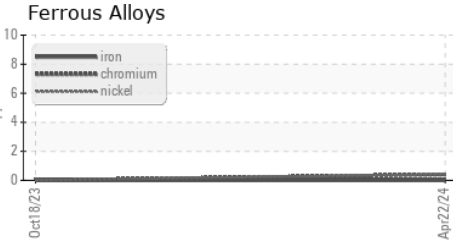
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.05	NEG	---
Free Water	scalar	*Visual		NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	45	52.1	40.76

SAMPLE IMAGES	method	limit/base	current	history1	history2
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## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : KCPA013704  
**Lab Number** : 06156927  
**Unique Number** : 10992350  
**Test Package** : IND 2 ( Additional Tests: KF, PrtCount )  
**Received** : 22 Apr 2024  
**Tested** : 23 Apr 2024  
**Diagnosed** : 24 Apr 2024 - Angela Borella

**AMAZON**  
 3575 S ORANGE AVE  
 FRESNO, CA  
 US 93725  
 Contact: Service Manager  
 favjazmi@amazon.com

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)