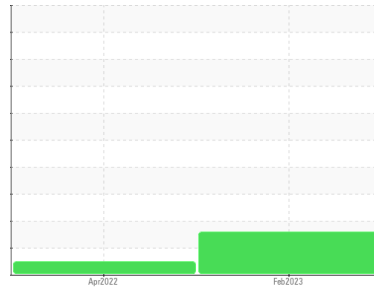




# OIL ANALYSIS REPORT

## Sample Rating Trend



ISO



Machine Id

**KAESER 7605604**

Component

**Compressor**

Fluid

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

### DIAGNOSIS

#### ▲ Recommendation

The 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>KCP55987</b>	KC85439	---
Sample Date	Client Info		<b>16 Feb 2023</b>	08 Apr 2022	---
Machine Age	hrs	Client Info	<b>5621</b>	3492	---
Oil Age	hrs	Client Info	<b>2129</b>	3492	---
Oil Changed	Client Info		<b>Not Chngd</b>	Changed	---
Sample Status			<b>ABNORMAL</b>	NORMAL	---

### WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >50	<b>0</b>	1	---
Chromium	ppm	ASTM D5185m >10	<b>0</b>	0	---
Nickel	ppm	ASTM D5185m >3	<b>0</b>	0	---
Titanium	ppm	ASTM D5185m >3	<b>0</b>	0	---
Silver	ppm	ASTM D5185m >2	<b>0</b>	<1	---
Aluminum	ppm	ASTM D5185m >10	<b>1</b>	2	---
Lead	ppm	ASTM D5185m >10	<b>0</b>	0	---
Copper	ppm	ASTM D5185m >50	<b>4</b>	6	---
Tin	ppm	ASTM D5185m >10	<b>0</b>	<1	---
Vanadium	ppm	ASTM D5185m	<b>0</b>	0	---
Cadmium	ppm	ASTM D5185m	<b>0</b>	0	---

### ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 0	<b>0</b>	0	---
Barium	ppm	ASTM D5185m 90	<b>4</b>	0	---
Molybdenum	ppm	ASTM D5185m 0	<b>0</b>	0	---
Manganese	ppm	ASTM D5185m	<b>1</b>	<1	---
Magnesium	ppm	ASTM D5185m 100	<b>41</b>	18	---
Calcium	ppm	ASTM D5185m 0	<b>&lt;1</b>	0	---
Phosphorus	ppm	ASTM D5185m 0	<b>1</b>	2	---
Zinc	ppm	ASTM D5185m 0	<b>75</b>	65	---
Sulfur	ppm	ASTM D5185m 23500	<b>22839</b>	15132	---

### CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	<b>2</b>	2	---
Sodium	ppm	ASTM D5185m	<b>11</b>	6	---
Potassium	ppm	ASTM D5185m >20	<b>7</b>	5	---
Water	%	ASTM D6304 >0.05	<b>0.012</b>	0.006	---
ppm Water	ppm	ASTM D6304 >500	<b>120.0</b>	62.8	---

### FLUID CLEANLINESS

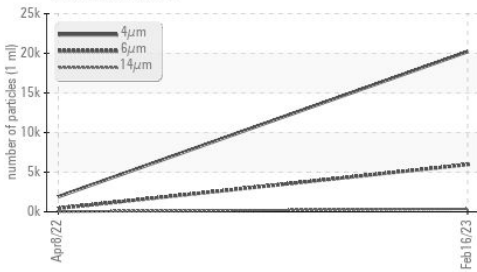
	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647		<b>20222</b>	1909	---
Particles >6µm	ASTM D7647	>1300	▲ <b>5960</b>	435	---
Particles >14µm	ASTM D7647	>80	▲ <b>370</b>	30	---
Particles >21µm	ASTM D7647	>20	▲ <b>101</b>	4	---
Particles >38µm	ASTM D7647	>4	<b>5</b>	0	---
Particles >71µm	ASTM D7647	>3	<b>0</b>	0	---
Oil Cleanliness	ISO 4406 (c)	>17/13	▲ <b>20/16</b>	16/12	---

### FLUID DEGRADATION

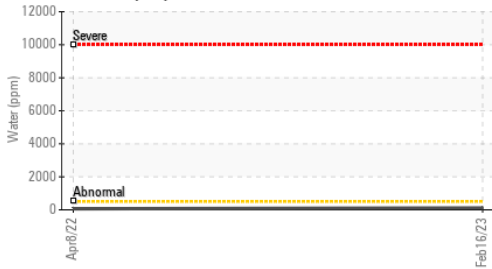
	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 1.0	<b>0.36</b>	0.44	---

# OIL ANALYSIS REPORT

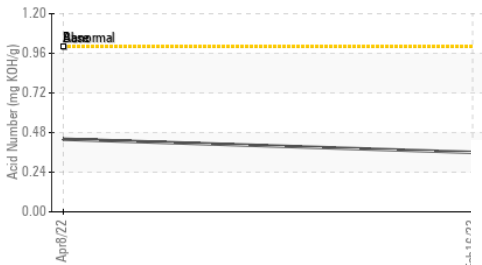
## ▲ Particle Trend



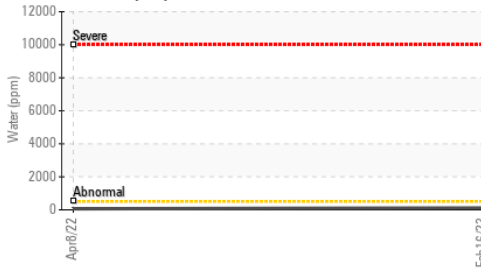
## Water (KF)



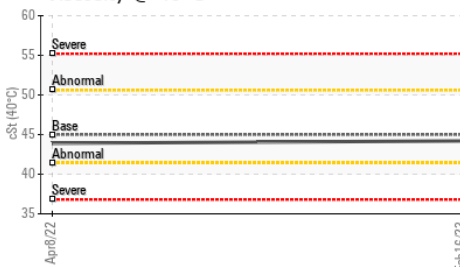
## Acid Number



## Water (KF)



## Viscosity @ 40°C

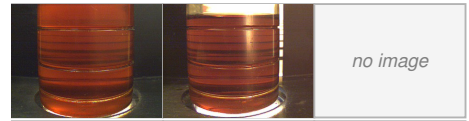


VISUAL	method	limit/base	current	history1	history2	
White Metal	scalar	*Visual	NONE	<b>LIGHT</b>	NONE	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Precipitate	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Debris	scalar	*Visual	NONE	<b>LIGHT</b>	NONE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

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D445	45	<b>44.2</b>	43.9	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
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Color



no image

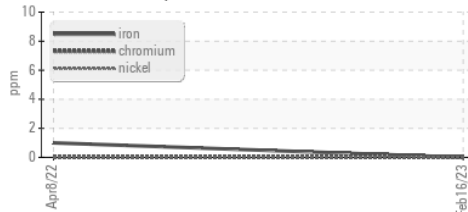
Bottom



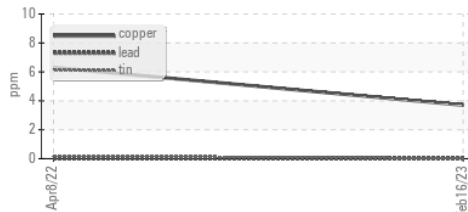
no image

## GRAPHS

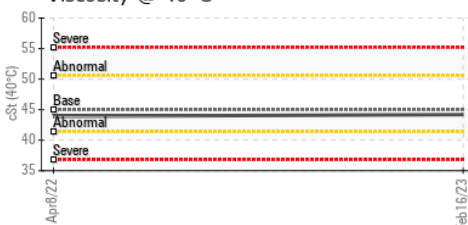
### Ferrous Alloys



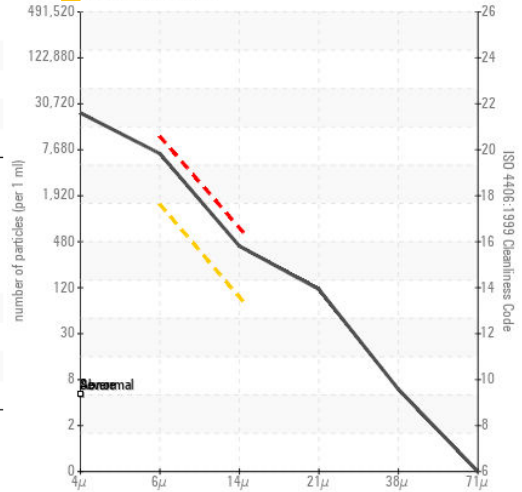
### Non-ferrous Metals



### Viscosity @ 40°C



### ▲ Particle Count



### Acid Number



Certificate L2367

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

Sample No. : KCP55987

Lab Number : **05779527**

Unique Number : 10359197

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 : 28 Feb 2023

Tested : 01 Mar 2023

Diagnosed : 02 Mar 2023 - Angela Borella

**IMAGE 1ST HEALTHCARE LAUNDRY**

50 COMMERCE DR

TRUMBULL, CT

US 06611

Contact: RYAN S.

sryan@imagefirst.com

T:

F: