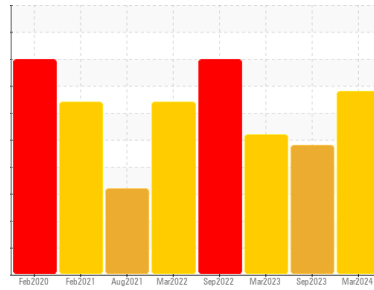




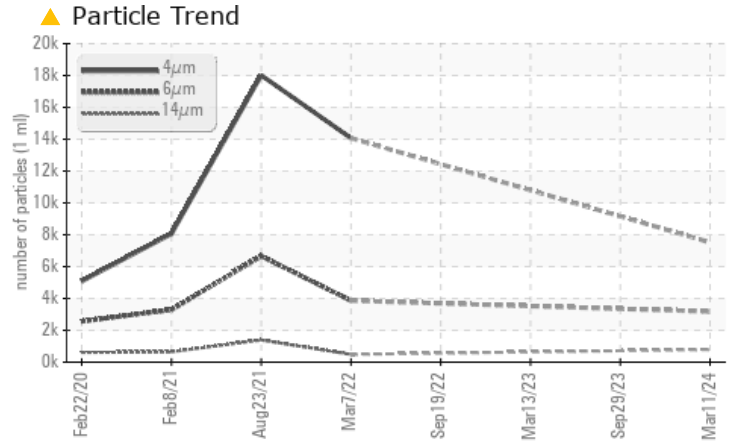
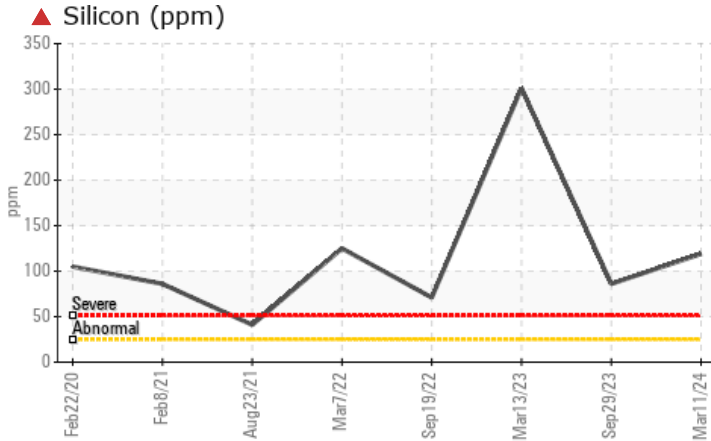
# PROBLEM SUMMARY

Sample Rating Trend



Machine Id  
**KAESER SFC 37T 6711651 (S/N 1102)**  
 Component  
**Compressor**  
 Fluid  
**KAESER SIGMA (OEM) S-460 (--- GAL)**

## COMPONENT CONDITION SUMMARY



## RECOMMENDATION

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. We recommend an early resample to monitor this condition.

## PROBLEMATIC TEST RESULTS

Sample Status		SEVERE	SEVERE	SEVERE	
Silicon	ppm	ASTM D5185m >25	▲ 119	▲ 86	▲ 301
Particles >6µm		ASTM D7647 >1300	▲ 3177	---	---
Particles >14µm		ASTM D7647 >80	▲ 792	---	---
Particles >21µm		ASTM D7647 >20	▲ 330	---	---
Particles >38µm		ASTM D7647 >4	▲ 15	---	---
Oil Cleanliness		ISO 4406 (c) >--/17/13	▲ 20/19/17	---	---

Customer Id: SILEAS  
 Sample No.: KC112417  
 Lab Number: 06150348  
 Test Package: IND 2



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
Change Fluid	---	---	?	Oil and filter change at the time of sampling has been noted.
Change Filter	---	---	?	Oil and filter change at the time of sampling has been noted.
Resample	---	---	?	We recommend an early resample to monitor this condition.

HISTORICAL DIAGNOSIS

DIRT



**29 Sep 2023 Diag: Don Baldrige**

The filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition. We were unable to perform a particle count on this sample. All component wear rates are normal. Elemental level of silicon (Si) above normal indicating ingress of dirt/seal material. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report



DIRT



**13 Mar 2023 Diag: Jonathan Hester**

Oil and filter change at the time of sampling has been noted. We were unable to perform a particle count due to a high concentration of particles present in this sample. We recommend an early resample in 500 hours to monitor this condition. All component wear rates are normal. Elemental level of silicon (Si) above normal indicating ingress of seal material. Moderate concentration of visible dirt/debris present in the oil. The AN level is acceptable for this fluid.

view report



DIRT



**19 Sep 2022 Diag: Don Baldrige**

We advise that you check all areas where dirt can enter the system. There is too much water present in this sample to perform a particle count. We advise that you stop the unit and follow the water drain-off procedure for this component. We recommend an early resample in 500 hours to monitor this condition. All component wear rates are normal. Elemental level of silicon (Si) above normal. There is a light concentration of water present in the oil. Free water present. The AN level is acceptable for this fluid.

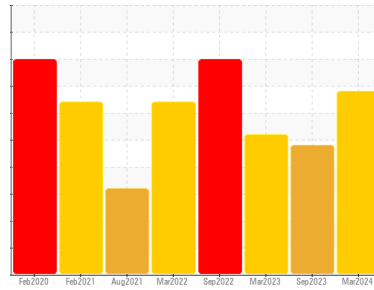
view report





# OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id  
**KAESER SFC 37T 6711651 (S/N 1102)**  
 Component  
**Compressor**  
 Fluid  
**KAESER SIGMA (OEM) S-460 (--- GAL)**

## DIAGNOSIS

### ▲ Recommendation

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. We recommend an early resample to monitor this condition.

### Wear

All component wear rates are normal.

### ▲ Contamination

There is a high amount of particulates present in the oil. Elemental level of silicon (Si) above normal.

### 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>KC112417</b>	KC124288	KC106109
Sample Date	Client Info	<b>11 Mar 2024</b>	29 Sep 2023	13 Mar 2023
Machine Age	hrs	<b>29455</b>	27606	23159
Oil Age	hrs	<b>6326</b>	0	6393
Oil Changed	Client Info	<b>Changed</b>	N/A	Changed
Sample Status		<b>SEVERE</b>	SEVERE	SEVERE

## WEAR METALS

method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m >50	<b>0</b>	1	0
Chromium	ppm	ASTM D5185m >10	<b>0</b>	0	0
Nickel	ppm	ASTM D5185m >3	<b>0</b>	<1	0
Titanium	ppm	ASTM D5185m >3	<b>0</b>	0	0
Silver	ppm	ASTM D5185m >2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m >10	<b>0</b>	<1	<1
Lead	ppm	ASTM D5185m >10	<b>0</b>	0	0
Copper	ppm	ASTM D5185m >50	<b>6</b>	17	6
Tin	ppm	ASTM D5185m >10	<b>&lt;1</b>	0	0
Vanadium	ppm	ASTM D5185m	<b>0</b>	0	0
Cadmium	ppm	ASTM D5185m	<b>0</b>	0	0

## ADDITIVES

method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	<b>0</b>	0	0
Barium	ppm	ASTM D5185m 90	<b>0</b>	2	0
Molybdenum	ppm	ASTM D5185m	<b>0</b>	0	0
Manganese	ppm	ASTM D5185m	<b>0</b>	0	0
Magnesium	ppm	ASTM D5185m 90	<b>&lt;1</b>	<1	<1
Calcium	ppm	ASTM D5185m 2	<b>0</b>	0	0
Phosphorus	ppm	ASTM D5185m	<b>0</b>	2	2
Zinc	ppm	ASTM D5185m	<b>0</b>	10	0

## CONTAMINANTS

method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m >25	<b>▲ 119</b>	▲ 86	▲ 301
Sodium	ppm	ASTM D5185m	<b>2</b>	0	0
Potassium	ppm	ASTM D5185m >20	<b>0</b>	<1	0
Water	%	ASTM D6304 >0.05	<b>0.006</b>	0.009	0.007
ppm Water	ppm	ASTM D6304 >500	<b>61</b>	96.8	78.0

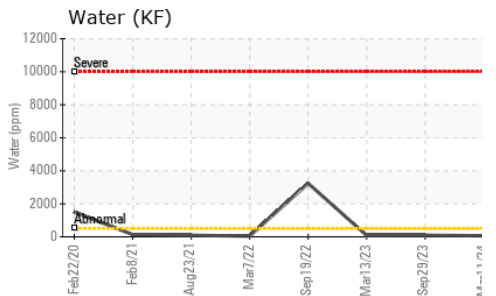
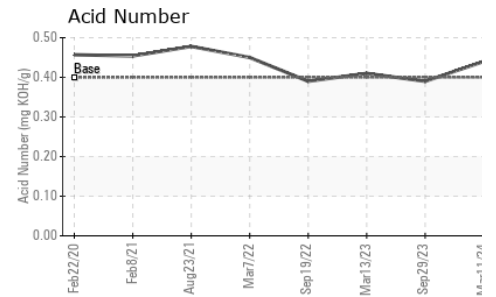
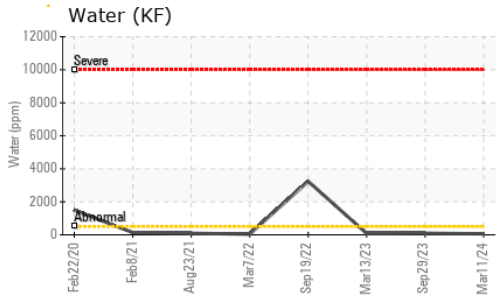
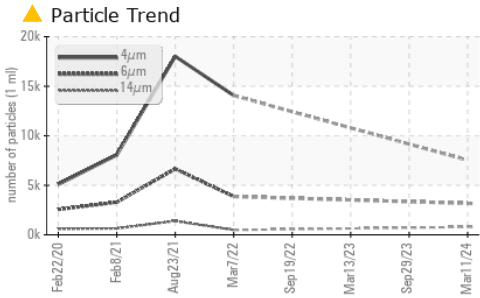
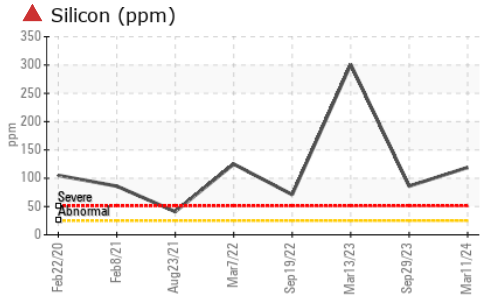
## FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	<b>7523</b>	---	---
Particles >6µm	ASTM D7647 >1300	<b>▲ 3177</b>	---	---
Particles >14µm	ASTM D7647 >80	<b>▲ 792</b>	---	---
Particles >21µm	ASTM D7647 >20	<b>▲ 330</b>	---	---
Particles >38µm	ASTM D7647 >4	<b>▲ 15</b>	---	---
Particles >71µm	ASTM D7647 >3	<b>0</b>	---	---
Oil Cleanliness	ISO 4406 (c) >--/17/13	<b>▲ 20/19/17</b>	---	---

## FLUID DEGRADATION

method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D8045 0.4	<b>0.44</b>	0.39	0.41

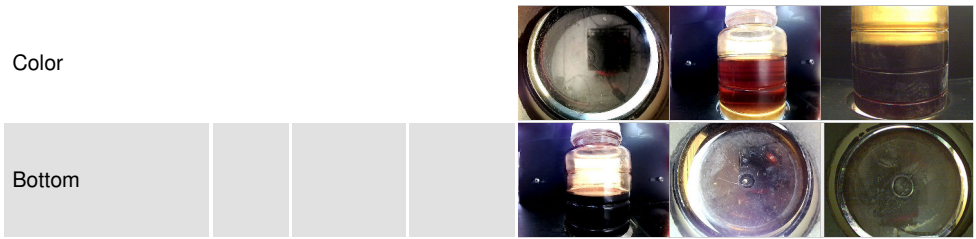
# OIL ANALYSIS REPORT



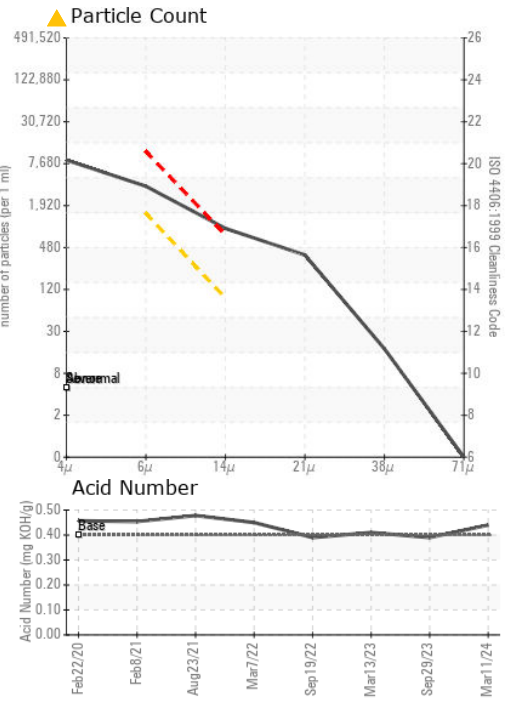
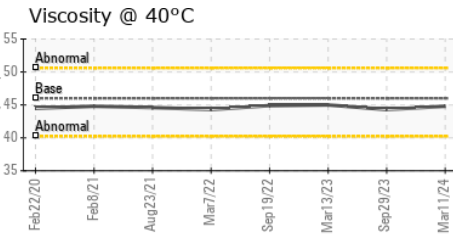
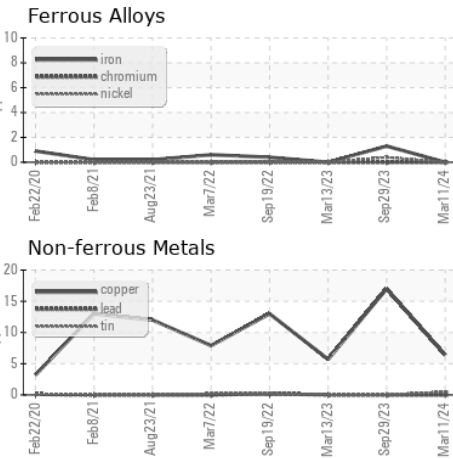
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	MODER
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	LIGHT
Debris	scalar	*Visual	NONE	NONE	▲ MODER
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	46	44.8	44.3

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



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : KC112417  
**Lab Number** : 06150348  
**Unique Number** : 10980426  
**Test Package** : IND 2  
**Received** : 16 Apr 2024  
**Tested** : 17 Apr 2024  
**Diagnosed** : 18 Apr 2024 - Don Baldrige

**SILBRICO**  
 4250 E BRADEN BLVD  
 EASTON, PA  
 US 18040  
 Contact: Service Manager

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)