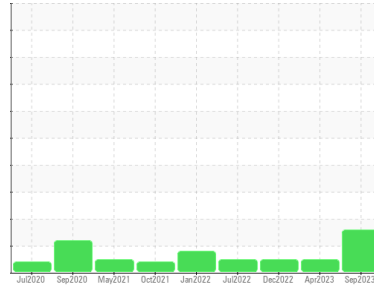




# PROBLEM SUMMARY

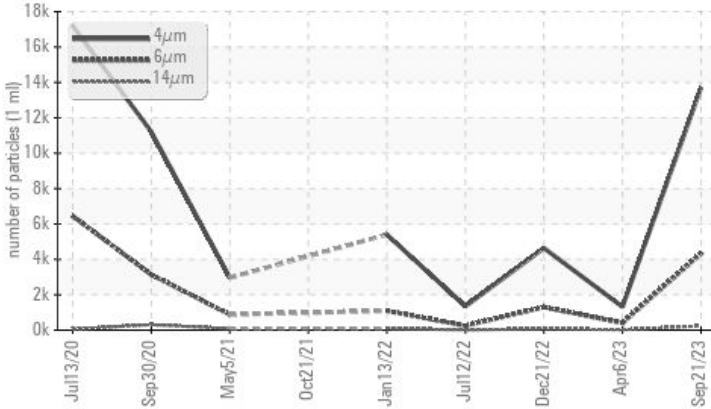
Sample Rating Trend



Machine Id  
**KAESER SFC 250 7273640 (S/N 1355)**  
 Component  
**Compressor**  
 Fluid  
**KAESER SIGMA (OEM) S-460 (--- QTS)**

## COMPONENT CONDITION SUMMARY

▲ Particle Trend



## RECOMMENDATION

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

## PROBLEMATIC TEST RESULTS

Sample Status			ABNORMAL	NORMAL	NORMAL
Particles >6µm	ASTM D7647	>1300	▲ 4333	411	1300
Particles >14µm	ASTM D7647	>80	▲ 238	25	69
Particles >21µm	ASTM D7647	>20	▲ 42	6	12
Oil Cleanliness	ISO 4406 (c)	>--/17/13	▲ 21/19/15	18/16/12	19/17/13

Customer Id: NORHOL  
 Sample No.: KC110826  
 Lab Number: 05964607  
 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.

## HISTORICAL DIAGNOSIS

### 06 Apr 2023 Diag: Don Baldrige

NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report



### 21 Dec 2022 Diag: Don Baldrige

NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report



### 12 Jul 2022 Diag: Jonathan Hester

NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

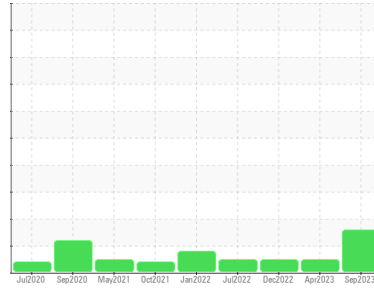
view report





# OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Machine Id  
**KAESER SFC 250 7273640 (S/N 1355)**

Component  
**Compressor**

Fluid  
**KAESER SIGMA (OEM) S-460 (--- QTS)**

## DIAGNOSIS

### Recommendation

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. 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>KC110826</b>	KC101804	KC91308
Sample Date	Client Info	<b>21 Sep 2023</b>	06 Apr 2023	21 Dec 2022
Machine Age	hrs	<b>29868</b>	26049	23651
Oil Age	hrs	<b>3819</b>	6100	4000
Oil Changed	Client Info	<b>Not Chngd</b>	Changed	Not Chngd
Sample Status		<b>ABNORMAL</b>	NORMAL	NORMAL

## WEAR METALS

method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m >50	<b>0</b>	0	<1
Chromium	ppm	ASTM D5185m >10	<b>0</b>	0	0
Nickel	ppm	ASTM D5185m >3	<b>0</b>	0	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>9</b>	2	8
Tin	ppm	ASTM D5185m >10	<b>0</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>	5	0
Molybdenum	ppm	ASTM D5185m	<b>0</b>	0	0
Manganese	ppm	ASTM D5185m	<b>0</b>	<1	<1
Magnesium	ppm	ASTM D5185m 90	<b>15</b>	35	37
Calcium	ppm	ASTM D5185m 2	<b>3</b>	0	0
Phosphorus	ppm	ASTM D5185m	<b>3</b>	0	0
Zinc	ppm	ASTM D5185m	<b>19</b>	0	12

## CONTAMINANTS

method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m >25	<b>0</b>	0	0
Sodium	ppm	ASTM D5185m	<b>7</b>	15	19
Potassium	ppm	ASTM D5185m >20	<b>2</b>	3	4
Water	%	ASTM D6304 >0.05	<b>0.010</b>	0.016	0.010
ppm Water	ppm	ASTM D6304 >500	<b>101.2</b>	163.7	108.3

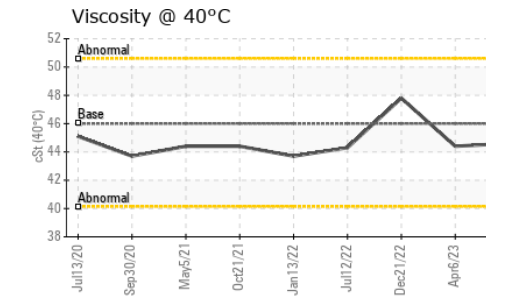
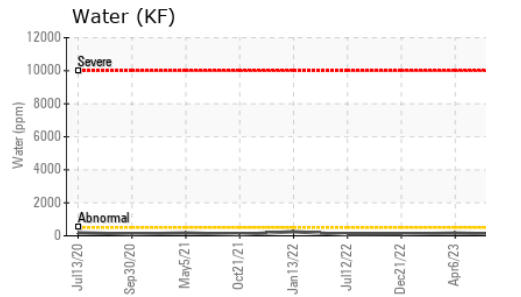
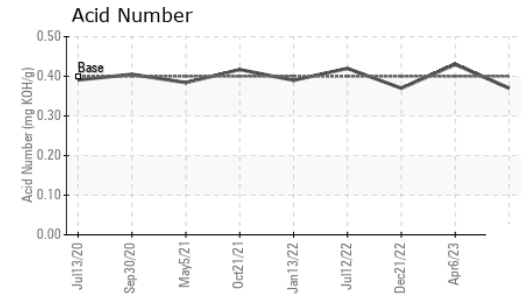
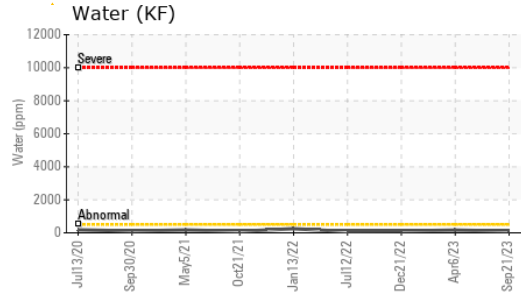
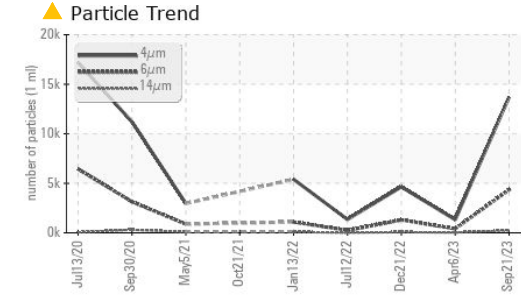
## FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	<b>13702</b>	1317	4637
Particles >6µm	ASTM D7647 >1300	<b>▲ 4333</b>	411	1300
Particles >14µm	ASTM D7647 >80	<b>▲ 238</b>	25	69
Particles >21µm	ASTM D7647 >20	<b>▲ 42</b>	6	12
Particles >38µm	ASTM D7647 >4	<b>1</b>	0	2
Particles >71µm	ASTM D7647 >3	<b>0</b>	0	0
Oil Cleanliness	ISO 4406 (c) >--/17/13	<b>▲ 21/19/15</b>	18/16/12	19/17/13

## FLUID DEGRADATION

method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D8045 0.4	<b>0.37</b>	0.43	0.37

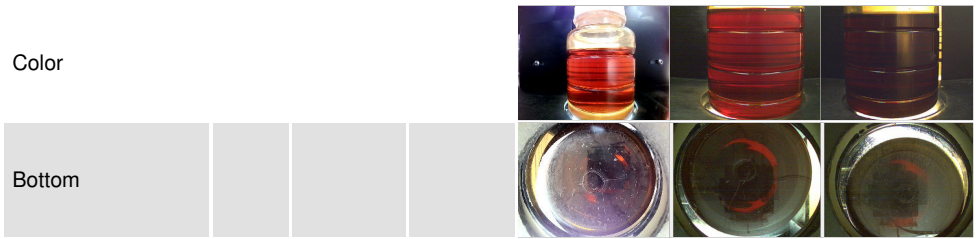
# OIL ANALYSIS REPORT



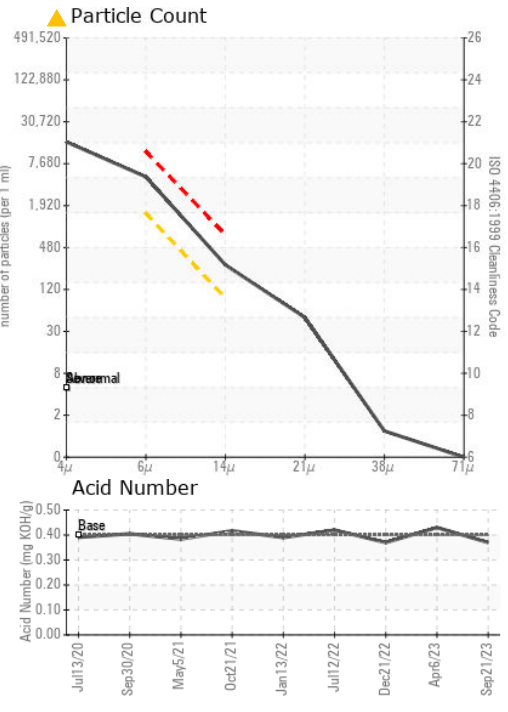
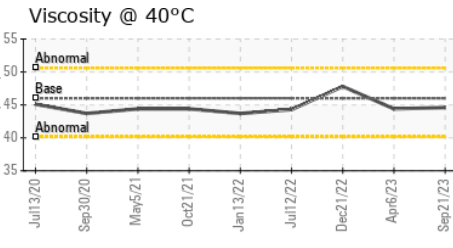
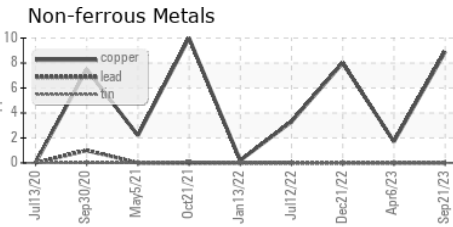
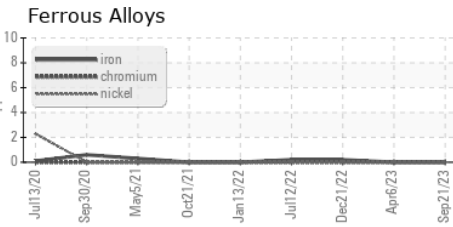
PARAMETER	VISUAL	method	limit/base	current	history1	history2
White Metal		scalar	*Visual	NONE	NONE	NONE
Yellow Metal		scalar	*Visual	NONE	NONE	NONE
Precipitate		scalar	*Visual	NONE	NONE	NONE
Silt		scalar	*Visual	NONE	NONE	NONE
Debris		scalar	*Visual	NONE	NONE	NONE
Sand/Dirt		scalar	*Visual	NONE	NONE	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

PARAMETER	FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	46	44.6	44.4	47.8

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



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : KC110826  
**Lab Number** : 05964607  
**Unique Number** : 10671158  
**Test Package** : IND 2

**NORTH AMERICAN HOGANAS**  
 111 HOGANAS WAY, STONEY CREEK MILL  
 HOLLISOPPLE, PA  
 US 15935  
 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)

T:  
F: