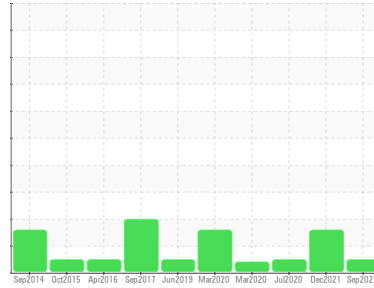




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Machine Id  
**KAESER SFC 132S 4911852 (S/N 1923)**

Component  
**Compressor**

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

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the component. The amount and size of particulates present in the system is acceptable.

### 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>KCPA005835</b>	KCP39684	KCP22771	
Sample Date	Client Info	<b>20 Sep 2023</b>	14 Dec 2021	06 Jul 2020	
Machine Age	hrs	Client Info	<b>64007</b>	51142	42680
Oil Age	hrs	Client Info	<b>0</b>	4435	2800
Oil Changed	Client Info	<b>N/A</b>	Not Changd	Not Changd	
Sample Status		<b>NORMAL</b>	ABNORMAL	NORMAL	

## WEAR METALS

method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m >50	<b>0</b>	<1	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	<1
Aluminum	ppm	ASTM D5185m >10	<b>0</b>	<1	2
Lead	ppm	ASTM D5185m >10	<b>0</b>	0	0
Copper	ppm	ASTM D5185m >50	<b>8</b>	14	5
Tin	ppm	ASTM D5185m >10	<b>0</b>	0	0
Antimony	ppm	ASTM D5185m	<b>---</b>	0	<1
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	<1
Barium	ppm	ASTM D5185m 90	<b>0</b>	0	2
Molybdenum	ppm	ASTM D5185m	<b>0</b>	0	0
Manganese	ppm	ASTM D5185m	<b>0</b>	0	0
Magnesium	ppm	ASTM D5185m 90	<b>0</b>	0	19
Calcium	ppm	ASTM D5185m 2	<b>0</b>	0	<1
Phosphorus	ppm	ASTM D5185m	<b>0</b>	6	5
Zinc	ppm	ASTM D5185m	<b>13</b>	24	33
Sulfur	ppm	ASTM D5185m	<b>15654</b>	15450	17196

## CONTAMINANTS

method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m >25	<b>0</b>	<1	2
Sodium	ppm	ASTM D5185m	<b>2</b>	<1	4
Potassium	ppm	ASTM D5185m >20	<b>0</b>	0	2
Water	%	ASTM D6304 >0.05	<b>0.006</b>	0.001	0.014
ppm Water	ppm	ASTM D6304 >500	<b>65.4</b>	13.9	142.0

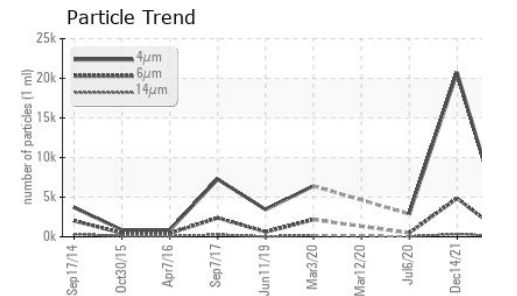
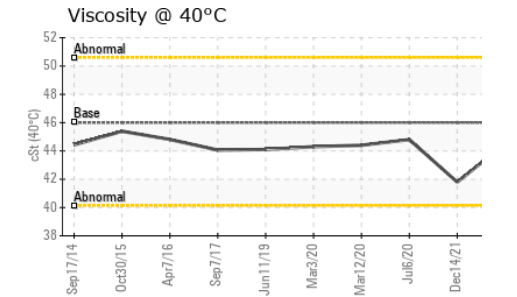
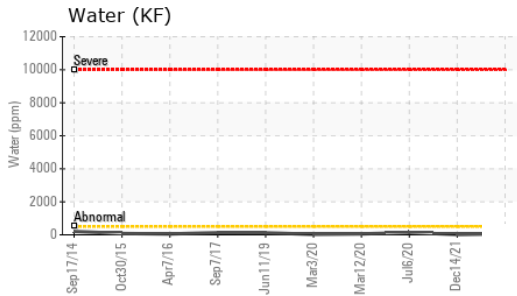
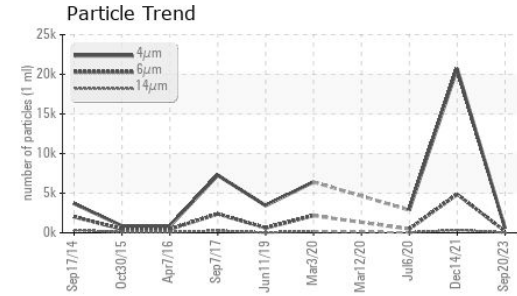
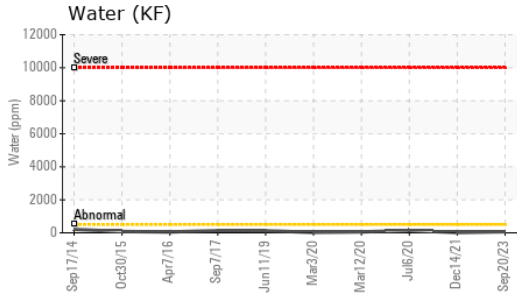
## FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	<b>577</b>	20713	2868
Particles >6µm	ASTM D7647 >1300	<b>199</b>	▲ 4860	486
Particles >14µm	ASTM D7647 >80	<b>24</b>	▲ 351	36
Particles >21µm	ASTM D7647 >20	<b>10</b>	▲ 66	16
Particles >38µm	ASTM D7647 >4	<b>1</b>	▲ 6	9
Particles >71µm	ASTM D7647 >3	<b>0</b>	1	8
Oil Cleanliness	ISO 4406 (c) >--/17/13	<b>16/15/12</b>	▲ 19/16	16/12

## FLUID DEGRADATION

method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D8045 0.4	<b>0.43</b>	0.47	0.410

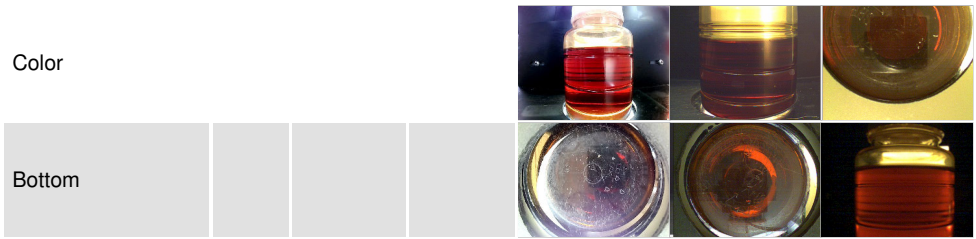
# OIL ANALYSIS REPORT



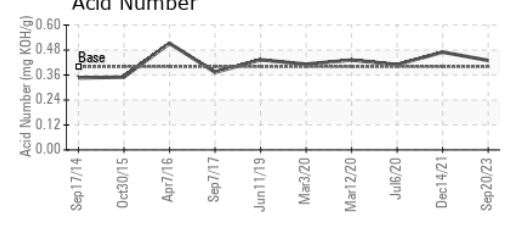
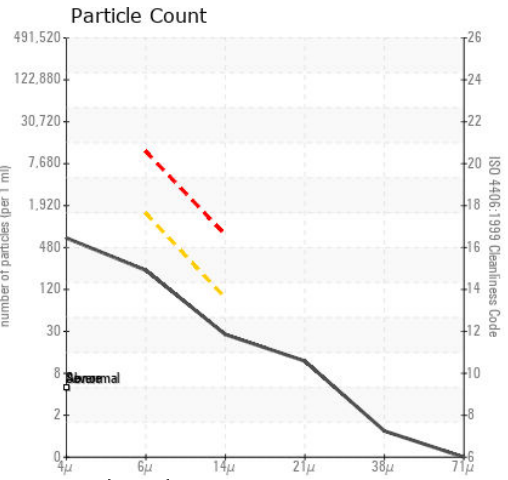
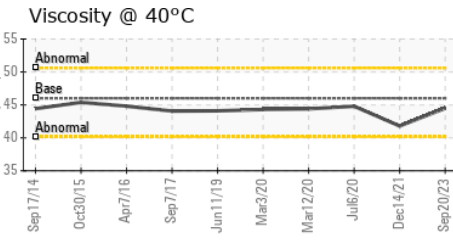
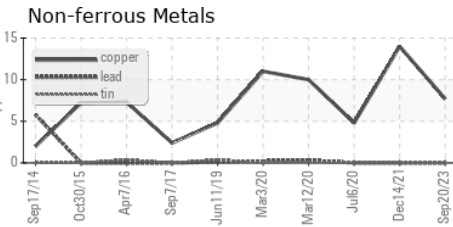
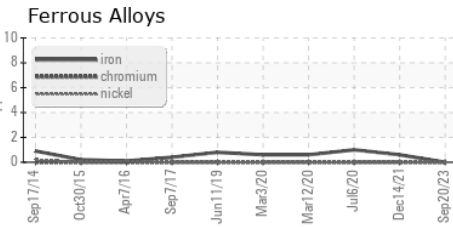
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	LIGHT
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	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	44.5	41.8

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



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : KCPA005835 **Received** : 17 Nov 2023  
**Lab Number** : 06010844 **Diagnosed** : 20 Nov 2023  
**Unique Number** : 10749988 **Diagnostician** : Don Baldrige  
**Test Package** : IND 2 ( Additional Tests: KF, PrtCount )

**BROSE**  
 23400 BELL RD  
 NEW BOSTON, MI  
 US 48164  
 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: