

## **OIL ANALYSIS REPORT**

#### Sample Rating Trend



# KAESER 1186697

### Compressor

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 oil. The amount and size of particulates present in the system are acceptable.

#### Fluid Condition

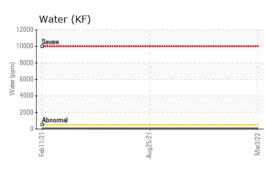
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

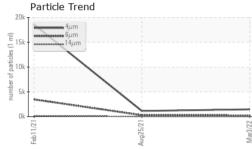
SAMPLE INFORMATION method limit/base current history1 history1   Sample Number Client Info KC96181 KC100461 KC85003   Sample Date Client Info 03 Mar 2022 25 Aug 2021 11 Feb 20   Machine Age hrs Client Info 33808 33171 31764   Oil Age hrs Client Info 2044 1407 0   Oil Changed Client Info Not Changd Not Changd Changed   Sample Status   NORMAL NORMAL ABNORM   WEAR METALS method limit/base current history1 history1   Iron ppm ASTM D5185m >50 0 0 0   Iron ppm ASTM D5185m >10 0 0 0   Nickel ppm ASTM D5185m >3 0 0 0   Silver ppm ASTM D5185m<>2 0 0 0 0   Aluminum <td< th=""><th>021 1AL</th></td<>	021 1AL
Sample Date Client Info 03 Mar 2022 25 Aug 2021 11 Feb 20   Machine Age hrs Client Info 33808 33171 31764   Oil Age hrs Client Info 2044 1407 0   Oil Changed Client Info Not Changd Not Changd Changed   Sample Status Imathematic Not Changd NorRMAL ABNORM   WEAR METALS method limit/base current history1 history1   Iron ppm ASTM D5185m >50 0 0 0   Iron ppm ASTM D5185m >10 0 0 0   Nickel ppm ASTM D5185m >3 0 0 0   Silver ppm ASTM D5185m >2 0 0 0   Aluminum ppm ASTM D5185m >10 0 0 <1	)21 1AL
Machine Age hrs Client Info 33808 33171 31764   Oil Age hrs Client Info 2044 1407 0   Oil Changed Client Info Not Changd Not Changd Changed   Sample Status Image Nor Changd Nor Changd NORMAL ABNORM   WEAR METALS method limit/base current history1 history1   Iron ppm ASTM D5185m >50 0 0 <1   Chromium ppm ASTM D5185m >10 0 0 0   Nickel ppm ASTM D5185m >3 0 0 0   Silver ppm ASTM D5185m >2 0 0 0   Aluminum ppm ASTM D5185m >10 0 0 1	1AL
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WEAR METALS method limit/base current history1 histor   Iron ppm ASTM D5185m >50 0 0 <1   Chromium ppm ASTM D5185m >10 0 0 0   Nickel ppm ASTM D5185m >3 0 0 0   Titanium ppm ASTM D5185m >3 0 0 0   Silver ppm ASTM D5185m >2 0 0 0   Auminum ppm ASTM D5185m >10 0 <1	
Iron ppm ASTM D5185m >50 0 0 <1	ry2
Chromium ppm ASTM D5185m >10 0 0 0   Nickel ppm ASTM D5185m >3 0 0 0   Titanium ppm ASTM D5185m >3 0 0 0   Silver ppm ASTM D5185m >2 0 0 0   Aluminum ppm ASTM D5185m >10 0 <1	
Nickel ppm ASTM D5185m >3 0 0 0   Titanium ppm ASTM D5185m >3 0 0 0 0   Silver ppm ASTM D5185m >2 0 0 0   Aluminum ppm ASTM D5185m >2 0 0 <1	
Titanium ppm ASTM D5185m >3 0 0 0   Silver ppm ASTM D5185m >2 0 0 0   Aluminum ppm ASTM D5185m >10 0 0 <1	
Silver ppm ASTM D5185m >2 0 0 0   Aluminum ppm ASTM D5185m >10 0 0 <1	
Aluminum ppm ASTM D5185m >10 0 <1	
Lead ppm ASTM D5185m >10 0 0	
Copper ppm ASTM D5185m >50 3 2 <1	
Tin ppm ASTM D5185m >10 <1	
Antimony ppm ASTM D5185m  0 0	
Vanadium ppm ASTM D5185m 0 0 0	
Cadmium ppm ASTM D5185m 0 0 0	
ADDITIVES method limit/base current history1 histor	ry2
Boron ppm ASTM D5185m 0 <1	
Barium ppm ASTM D5185m 90 0 0 0	
Molybdenum ppm ASTM D5185m 0 0 0	
Manganese ppm ASTM D5185m 0 0 0	
Magnesium ppm ASTM D5185m 90 <1	
Calcium ppm ASTM D5185m 2 0 0 0	
Phosphorus ppm ASTM D5185m 20 18 131	
Zinc ppm ASTM D5185m 0 7 0	
CONTAMINANTS method limit/base current history1 histor	ry2
Silicon ppm ASTM D5185m >25 <1 <1 4	
Sodium ppm ASTM D5185m 0 2 0	
Potassium ppm ASTM D5185m >20 0 <1	
Water % ASTM D6304 >0.05 0.003 0.003 0.005	
ppm Water ppm ASTM D6304 >500 32.3 34.5 54.1	
FLUID CLEANLINESS method limit/base current history1 histor	ry2
Particles >4μm ASTM D7647 1460 1131 18564	
Particles >6μm ASTM D7647 >1300 225 277 Δ 3452	
Particles >14μm ASTM D7647 >80 18 20 ▲ 145	
Particles >21μm ASTM D7647 >20 5 5 ▲ 28	
Particles >38μm ASTM D7647 >4 0 0 0	
Particles >71μm ASTM D7647 >3 0 0 0	
Oil Cleanliness ISO 4406 (c) >/17/13 15/11 15/11 19/14	
FLUID DEGRADATION method limit/base current history1 histor	ry2
Acid Number (AN) mg KOH/g ASTM D8045 0.4 0.41 0.358 0.369	

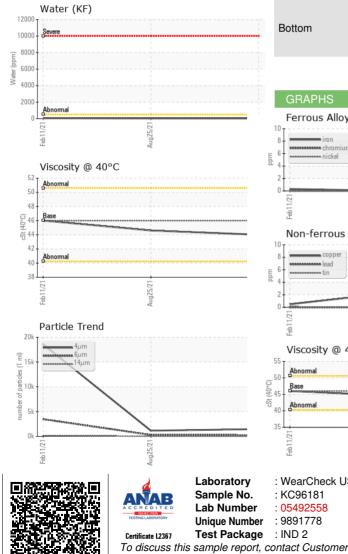
Contact/Location: Service Manager - TAPBRO



## **OIL ANALYSIS REPORT**







VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	VLITE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.05	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	46	44.0	44.6	46.0
SAMPLE IMAGES		method	limit/base	current	history1	history2
Color						

