

# **PROBLEM SUMMARY**

Sample Rating Trend

WATER

Machine Id

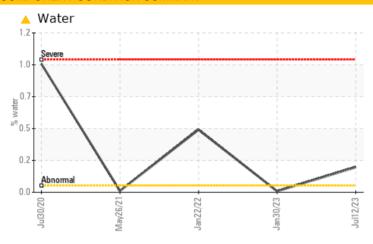
# KAESER SM 10 5516949 (S/N 1806)

Component

Compressor

KAESER SIGMA (OEM) M-460 (--- GAL)

## **COMPONENT CONDITION SUMMARY**



#### RECOMMENDATION

The 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 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.

PROBLEMATIC TEST RESULTS								
Sample Status				ABNORMAL	NORMAL	ABNORMAL		
Water	%	ASTM D6304	>0.05	<b>△</b> 0.189	0.008	<b>△</b> 0.471		
ppm Water	ppm	ASTM D6304	>500	<b>1891.3</b>	84.3	<b>4710</b>		
Appearance	scalar	*Visual	NORML	▲ HAZY	NORML	NORML		

Customer Id: ESSOAK Sample No.: KCPA004613 Lab Number: 05903799 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Angela Borella +1 800-237-1369 angela.borella@wearcheckusa.com

To change component or sample information: Customer Service +1 1-800-237-1369 customerservice@wearcheck.com

#### **RECOMMENDED ACTIONS**

Action	Status	Date	Done By	Description
Alert			?	We were unable to perform a particle count due to a high concentration of particles present in this sample.

#### HISTORICAL DIAGNOSIS

## 30 Jan 2023 Diag: Doug Bogart

#### 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

#### 22 Jan 2022 Diag: Angela Borella

#### WAIER



We advise that you shut down the unit and follow the water drain-off procedure for this component. The filter change at the time of sampling has been noted. We recommend an early resample in 500 hours to monitor this condition.All component wear rates are normal. Moderate concentration of visible dirt/debris present in the oil. Excessive free water present. There is a light concentration of water present in the oil. The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

# view report

#### 26 May 2021 Diag: Jonathan Hester

# VIS DEBRIS



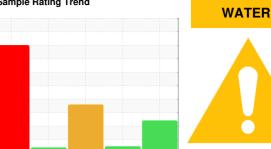
Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample.All component wear rates are normal. Moderate concentration of visible dirt/debris present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.





# **OIL ANALYSIS REPORT**

Sample Rating Trend



# KAESER SM 10 5516949 (S/N 1806)

Compressor

KAESER SIGMA (OEM) M-460 (--- GAL)

## **DIAGNOSIS**

#### Recommendation

The 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 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.

## Contamination

There is a light concentration of water 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.

		Jul2020	May2021	Jan 2022 Jan 2023	Jul2023	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KCPA004613	KCP55597	KCP31995
Sample Date		Client Info		12 Jul 2023	30 Jan 2023	22 Jan 2022
Machine Age	hrs	Client Info		24837	23228	21545
Oil Age	hrs	Client Info		0	5322	0
Oil Changed	1110	Client Info		N/A	Changed	Not Changd
Sample Status		Olioni illio		ABNORMAL	NORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	<1	<1	<1
Chromium	ppm	ASTM D5185m	>10	0	0	0
Nickel	ppm	ASTM D5185m	>3	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>10	<1	0	0
Lead	ppm	ASTM D5185m	>10	0	0	0
Copper	ppm	ASTM D5185m	>50	2	7	4
Tin	ppm	ASTM D5185m	>10	0	0	0
Antimony	ppm	ASTM D5185m	210			0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	• •	ASTM D5185m		0	0	0
	ppm			-		-
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	0	1
Barium	ppm	ASTM D5185m	90	11	<1	0
Molybdenum	ppm	ASTM D5185m	0	0	0	0
Manganese	ppm	ASTM D5185m		<1	0	0
Magnesium	ppm	ASTM D5185m	100	42	18	29
Calcium	ppm	ASTM D5185m	0	<1	0	0
Phosphorus	ppm	ASTM D5185m	0	1	1	8
Zinc	ppm	ASTM D5185m	0	7	61	20
Sulfur	ppm	ASTM D5185m	23500	23971	18252	17061
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<1	<1	<1
Sodium	ppm	ASTM D5185m		8	5	3
Potassium	ppm	ASTM D5185m	>20	<1	<1	0
Water	%	ASTM D6304	>0.05	<b>△</b> 0.189	0.008	<u>^</u> 0.471
ppm Water	ppm	ASTM D6304	>500	<u>▲</u> 1891.3	84.3	<b>▲</b> 4710
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4μm		ASTM D7647			4669	
Particles >6µm		ASTM D7647	>1300		1193	
Particles >14μm		ASTM D7647	>80		76	
Particles >21µm		ASTM D7647	>20		18	
Particles >38µm		ASTM D7647	>4		1	
Particles >71µm		ASTM D7647	>3		0	
Oil Cleanliness		ISO 4406 (c)	>/17/13		19/17/13	
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	ma K∩∐/a	VSTM D804E	1.0	0.35	0.21	0.36



# **OIL ANALYSIS REPORT**







Certificate L2367

Laboratory Sample No. Lab Number **Unique Number** 

: KCPA004613

: 10565155

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : 05903799

Received Diagnosed

Diagnostician : Angela Borella

: 20 Jul 2023 : 24 Jul 2023 125 GREEN TREE RD OAKS, PA US 19456

Contact: Service Manager

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)

T: F:

**ESSENDANT**