

# **PROBLEM SUMMARY**

Sample Rating Trend

ISO

# KAESER SM 10 6695883 (S/N 1073)

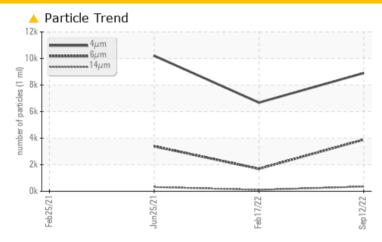
Compressor

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





#### **COMPONENT CONDITION SUMMARY**



#### RECOMMENDATION

The filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS								
Sample Status			ABNORMAL	ATTENTION	ABNORMAL			
Particles >6µm	ASTM D7647	>1300	<b>△</b> 3887	<u>▲</u> 1689	<b>△</b> 3391			
Particles >14µm	ASTM D7647	>80	<b>352</b>	<u> </u>	<b>△</b> 319			
Particles >21µm	ASTM D7647	>20	<b>4</b> 99	<b>A</b> 30	<b>△</b> 59			
Particles >38µm	ASTM D7647	>4	<u> </u>	2	3			
Oil Cleanliness	ISO 4406 (c)	>/17/13	<b>20/19/16</b>	<u> </u>	<b>1</b> 9/15			

Customer Id: VULCOR Sample No.: KC105561 Lab Number: 05646625 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Jonathan Hester +1 919-379-4092 x4092 jhester@wearcheckusa.com

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

#### **RECOMMENDED ACTIONS**

There are no recommended actions for this sample.

#### HISTORICAL DIAGNOSIS

### 17 Feb 2022 Diag: Don Baldridge

ISO



Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. There is a moderate amount of particulates present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



#### 25 Jun 2021 Diag: Angela Borella

150



The filter change at the time of sampling has been noted. Resample at the next service interval to monitor.All component wear rates are normal. There is a high amount of particulates present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



#### 25 Feb 2021 Diag: Angela Borella

WATER



Oil and 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. There is a light concentration of water present in the oil. Free water present. 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 6695883 (S/N 1073)

Compressor

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

**DIAGNOSIS** 

### Recommendation

The filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

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.

		Feb202	1 Jun2021	Feb 2022 Se	p2022	
SAMPLE INFORM	MATION	method	limit/base	current	history 1	history 2
Sample Number				KC105561	KC85833	KC92535
Sample Date				12 Sep 2022	17 Feb 2022	25 Jun 2021
Machine Age	hrs			19678	16423	12918
Oil Age	hrs			3000	4000	2400
Oil Changed				Not Changd	Changed	Not Changd
Sample Status				ABNORMAL	ATTENTION	ABNORMAL
WEAR METALS		method	limit/base	current	history 1	history 2
Iron	ppm	ASTM D5185m	>50	0	<1	<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	<1	1
Aluminum	ppm	ASTM D5185m	>10	0	<1	<1
Lead	ppm	ASTM D5185m	>10	0	0	0
Copper	ppm	ASTM D5185m	>50	26	20	7
Tin	ppm	ASTM D5185m	>10	<1	0	0
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	history 1	history 2
Boron	ppm	ASTM D5185m		0	3	15
Barium	ppm	ASTM D5185m	90	0	0	28
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	90	21	14	62
Calcium	ppm	ASTM D5185m	2	0	0	1
Phosphorus	ppm	ASTM D5185m		1	1	2
Zinc	ppm	ASTM D5185m		28	35	25
CONTAMINANTS	;	method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185m	>25	<1	<1	0
Sodium	ppm	ASTM D5185m		7	6	14
Potassium	ppm	ASTM D5185m	>20	0	0	<1
Water	%	ASTM D6304	>0.05	0.020	0.009	0.034
ppm Water	ppm	ASTM D6304	>500	204.2	95.3	343.2
FLUID CLEANLIN	IESS	method	limit/base	current	history 1	history 2
Particles >4µm		ASTM D7647		8905	6678	10212
Particles >6µm		ASTM D7647	>1300	<b>4</b> 3887	<b>▲</b> 1689	<b>△</b> 3391
Particles >14µm		ASTM D7647	>80	<b>4</b> 352	<u></u> 106	<b>△</b> 319
Particles >21µm		ASTM D7647	>20	<u>^</u> 99	<b>△</b> 30	<b>△</b> 59
Particles >38µm		ASTM D7647	>4	<b>1</b> 4	2	3
Particles >71μm		ASTM D7647	>3	1	0	0
Oil Cleanliness		ISO 4406 (c)	>/17/13	<b>20/19/16</b>	<u> </u>	<b>▲</b> 19/15
FLUID DEGRADA	TION	method	limit/base	current	history 1	history 2
					, , ,	

Acid Number (AN)

mg KOH/g ASTM D8045 0.4

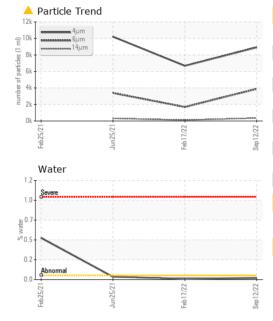
0.32

0.28

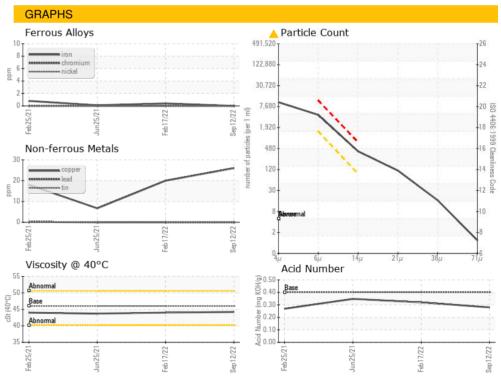
0.348



## **OIL ANALYSIS REPORT**



VISUAL		method	limit/base	current	history 1	history 2
White Metal	scalar	*Visual	NONE	NONE	NONE	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	LIGHT	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
<b>Emulsified Water</b>	scalar	*Visual	>0.05	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	TES	method	limit/base	current	history 1	history 2
Visc @ 40°C	cSt	ASTM D445	46	44.2	44.0	43.7
SAMPLE IMAGES	8	method	limit/base	current	history 1	history 2
Color						
Bottom						







Certificate L2367

Laboratory Sample No. Lab Number Unique Number : 10141164 Test Package : IND 2

: KC105561 : 05646625

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 20 Sep 2022 Diagnosed

: 22 Sep 2022 Diagnostician : Jonathan Hester **VULCAN INDUSTRIES** 701 4TH AVE CORAOPOLIS, PA

USA 15108

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: