

# **PROBLEM SUMMARY**

Sample Rating Trend

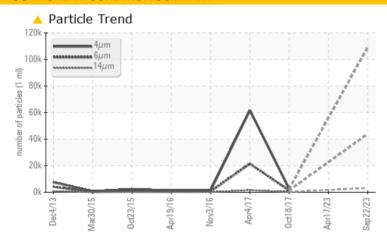


# Machine Id KAESER SM20 4690436 (S/N 3339)

Compressor

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

### **COMPONENT CONDITION SUMMARY**



### RECOMMENDATION

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

PROBLEMATIC TEST RESULTS									
Sample Status			<b>ABNORMAL</b>	ABNORMAL	ABNORMAL				
Particles >6μm	ASTM D7647	>1300	<b>43832</b>		<b>△</b> 1396				
Particles >14μm	ASTM D7647	>80	<b>3176</b>		<b>△</b> 237				
Particles >21µm	ASTM D7647	>20	<b>△</b> 582		<b>A</b> 80				
Particles >38µm	ASTM D7647	>4	<u> </u>		<u> </u>				
Oil Cleanliness	ISO 4406 (c)	>/17/13	<u>4</u> 24/23/19		<u>▲</u> 18/15				

Customer Id: WESBER Sample No.: KC05963591 Lab Number: 05963591 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:

Don Baldridge +1 don.b505@comcast.net

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 Apr 2023 Diag: Don Baldridge

#### VIS DEBRIS



No corrective action is recommended at this time. The 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.



#### 18 Oct 2017 Diag: Don Baldridge

#### WATER



We advise that you stop the unit and follow the water drain-off procedure for this component. We recommend you service the filters on this component. We recommend an early resample in 500 hours to monitor this condition. All component wear rates are normal. There is a high amount of particulates present in the oil. Free water present. The AN level is acceptable for this fluid.



#### 04 Apr 2017 Diag: Jonathan Hester

#### 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 high amount of particulates present in the oil. The AN level is acceptable for this fluid. The oil is no longer serviceable due to the presence of contaminants.





# **OIL ANALYSIS REPORT**

Sample Rating Trend



Machine Id

# KAESER SM20 4690436 (S/N 3339)

Jomponent

Compressor

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

## **DIAGNOSIS**

#### Recommendation

No corrective action is recommended at this time. The filter change at the time of sampling has been noted. 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.

0x2013 Mx2015 0x2015 Apr2016 Nxx2016 Apr2017 0x2017 Apr2023 Sxp2023								
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2		
Sample Number		Client Info		KC05963591	KC101633	KC64101		
Sample Date		Client Info		22 Sep 2023	17 Apr 2023	18 Oct 2017		
Machine Age	hrs	Client Info		47684	46485	21872		
Oil Age	hrs	Client Info		0	0	2331		
Oil Changed		Client Info		N/A	Not Changd	Not Changd		
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL		
WEAR METALS		method	limit/base	current	history1	history2		
Iron	ppm	ASTM D5185m	>50	2	0	1		
Chromium	ppm	ASTM D5185m	>10	0	0	0		
Nickel	ppm	ASTM D5185m	>3	0	0	1		
Titanium	ppm	ASTM D5185m	>3	<1	0	0		
Silver	ppm	ASTM D5185m	>2	0	0	0		
Aluminum	ppm	ASTM D5185m	>10	<1	<1	1		
Lead	ppm	ASTM D5185m	>10	0	0	0		
Copper	ppm	ASTM D5185m	>50	5	<1	10		
Tin	ppm	ASTM D5185m	>10	0	0	2		
Antimony	ppm	ASTM D5185m				2		
Vanadium	ppm	ASTM D5185m		0	0	0		
Cadmium	ppm	ASTM D5185m		0	0	0		
ADDITIVES		method	limit/base	current	history1	history2		
Boron	ppm	ASTM D5185m		0	0	<1		
Barium	ppm	ASTM D5185m	90	0	6	2		
Molybdenum	ppm	ASTM D5185m		0	0	<1		
Manganese	ppm	ASTM D5185m		<1	<1	<1		
Magnesium	ppm	ASTM D5185m	90	39	80	17		
Calcium	ppm	ASTM D5185m	2	0	0	2		
Phosphorus	ppm	ASTM D5185m		0	<1	2		
Zinc	ppm	ASTM D5185m		8	0	10		
CONTAMINANTS	;	method	limit/base	current	history1	history2		
Silicon	ppm	ASTM D5185m	>25	2	<1	2		
Sodium	ppm	ASTM D5185m		11	16	3		
Potassium	ppm	ASTM D5185m	>20	<1	0	<1		
Water	%	ASTM D6304	>0.05	0.022	0.020	0.028		
ppm Water	ppm	ASTM D6304	>500	220.7	207.8	280		
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2		
Particles >4µm		ASTM D7647		109293		2564		
Particles >6µm		ASTM D7647	>1300	<b>43832</b>		<b>△</b> 1396		
Particles >14µm		ASTM D7647	>80	<b>▲</b> 3176		<b>△</b> 237		
Particles >21µm		ASTM D7647	>20	<u> </u>		<u>^</u> 80		
•		ASTM D7647	>4	<u>▲</u> 10		<u>▲</u> 12		
Particles >38um								
Particles >38µm Particles >71um		ASTM D7647	>3	1		1		
Particles >38µm Particles >71µm Oil Cleanliness		ASTM D7647 ISO 4406 (c)	>3 >/17/13	1 ^ 24/23/19		1 18/15		
Particles >71µm	TION							

Acid Number (AN)

mg KOH/g ASTM D8045 0.4

0.38

0.35

0.319



## **OIL ANALYSIS REPORT**



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: