

## **PROBLEM SUMMARY**

Sample Rating Trend

WATER

A

Machine Id

# KAESER AIR TOWER 5C 8434498 (S/N 1422)

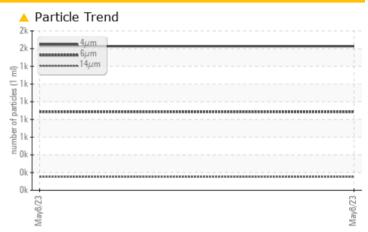
Component

Compressor

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

#### **COMPONENT CONDITION SUMMARY**





#### RECOMMENDATION

We recommend you service the filters on this component. We recommend an early resample in 500 hours to monitor this condition.

PROBLEMATIC TEST RESULTS							
Sample Status				ABNORMAL			
Water	%	ASTM D6304	>0.05	<b>△</b> 0.198			
ppm Water	ppm	ASTM D6304	>500	<b>1980</b>			
Particles >14μm		ASTM D7647	>80	<u> </u>			
Particles >21μm		ASTM D7647	>20	<u> </u>			
Particles >38μm		ASTM D7647	>4	<u>^</u> 8			
Oil Cleanliness		ISO 4406 (c)	>/17/13	<b>18/17/14</b>			
Appearance	scalar	*Visual	NORML	▲ HAZY			
Free Water	scalar	*Visual		<b>1.0</b>			

Customer Id: USGSTP Sample No.: KC102751 Lab Number: 05850202 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							
Action	Status	Date	Done By	Description			
Change Filter			?	We recommend you service the filters on this component.			

## HISTORICAL DIAGNOSIS



## **OIL ANALYSIS REPORT**

Sample Rating Trend



# KAESER AIR TOWER 5C 8434498 (S/N 1422)

Compressor

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

### **DIAGNOSIS**

#### Recommendation

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.

### Contamination

Appearance is hazy. There is a moderate amount of particulates present in the oil. Free water present. There is a light concentration of water present in the

#### **Fluid Condition**

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

		ļ.				<u> </u>
				May2023		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KC102751		
Sample Date		Client Info		08 May 2023		
Machine Age	hrs	Client Info		136		
Oil Age	hrs	Client Info		3		
Oil Changed		Client Info		N/A		
Sample Status				ABNORMAL		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	2		
Chromium	ppm	ASTM D5185m	>10	0		
Nickel	ppm	ASTM D5185m	>3	0		
Titanium	ppm	ASTM D5185m	>3	0		
Silver	ppm	ASTM D5185m	>2	0		
Aluminum	ppm	ASTM D5185m	>10	0		
Lead	ppm	ASTM D5185m	>10	0		
Copper	ppm	ASTM D5185m	>50	0		
Tin	ppm	ASTM D5185m	>10	0		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0		
Barium	ppm	ASTM D5185m	90	24		
Molybdenum	ppm	ASTM D5185m	0	0		
Manganese	ppm	ASTM D5185m		<1		
Magnesium	ppm	ASTM D5185m	100	44		
Calcium	ppm	ASTM D5185m	0	0		
Phosphorus	ppm	ASTM D5185m	0	4		
Zinc	ppm	ASTM D5185m		0		
CONTAMINANTS	3	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	0		
Sodium	ppm	ASTM D5185m		3		
Potassium	ppm	ASTM D5185m	>20	1		
Water	%	ASTM D6304	>0.05	<b>△</b> 0.198		
ppm Water	ppm	ASTM D6304	>500	<b>▲</b> 1980		
FLUID CLEANLIN	NESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		1627		
Particles >6µm		ASTM D7647	>1300	886		
Particles >14μm		ASTM D7647	>80	<u> </u>		
Particles >21µm		ASTM D7647		<u> </u>		
Particles >38µm		ASTM D7647	>4	<u>^</u> 8		
Particles >71µm		ASTM D7647		1		
Oil Cleanliness		ISO 4406 (c)	>/17/13	_ 18/17/14		
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
A : 1 N	1/011/	1071100015	4.0			

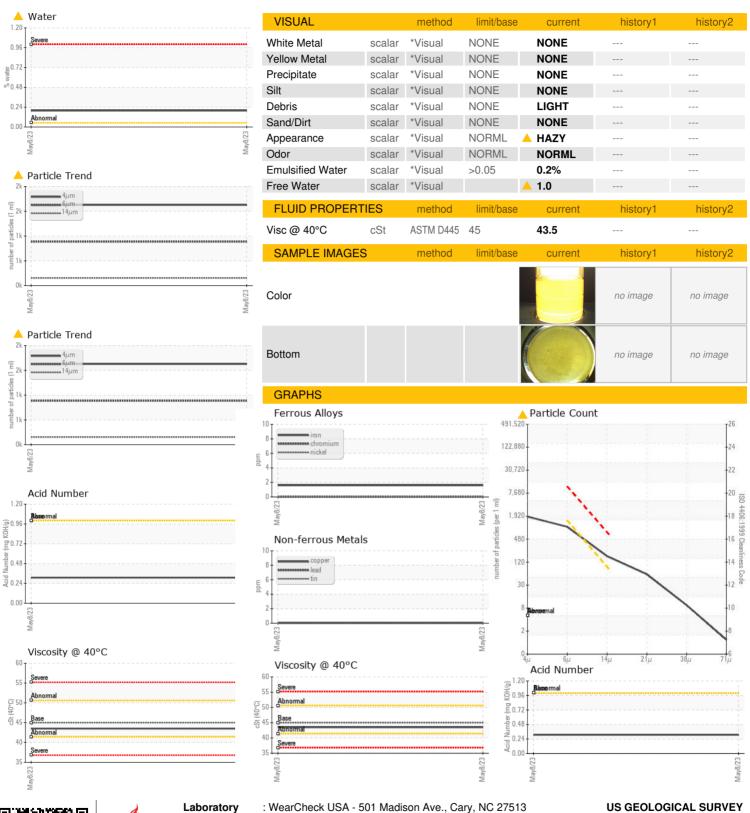
Acid Number (AN)

mg KOH/g ASTM D8045 1.0

0.31



## **OIL ANALYSIS REPORT**







Certificate L2367

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

: KC102751 : 05850202 : 10479557

: 17 May 2023 Received Diagnosed : 22 May 2023 : Jonathan Hester Diagnostician

**US GEOLOGICAL SURVEY** 

600 4TH ST N ST PETE, FL US 33701

Contact: Service Manager

To discuss this sample report, contact Customer Service at 1-800-237-1369.

: IND 2

\* - 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: