

## **PROBLEM SUMMARY**

Sample Rating Trend

ISO

# KAESER 5C 5600853 (S/N 1008)

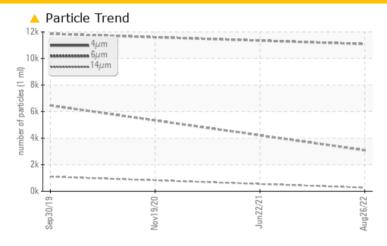
Compressor

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





#### **COMPONENT CONDITION SUMMARY**



#### RECOMMENDATION

No corrective action is recommended at this time. Oil and 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>△</b> 3090				
Particles >14µm	ASTM D7647	>80	<b>273</b>				
Particles >21µm	ASTM D7647	>20	<u> </u>				
Oil Cleanliness	ISO 4406 (c)	>/17/13	<b>2</b> 1/19/15				

Customer Id: BIRCHA Sample No.: KCP30915 Lab Number: 05630595 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
Change Fluid			?	Oil and filter change at the time of sampling has been noted.
Change Filter			?	Oil and filter change at the time of sampling has been noted.

#### HISTORICAL DIAGNOSIS

#### 22 Jun 2021 Diag: Jonathan Hester

#### 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. 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. Free water present. There is a light concentration of water present in the oil. Moderate concentration of visible dirt/debris present in the oil. There is a moderate amount of visible silt present in the sample. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

# view report

#### 19 Nov 2020 Diag: Jonathan Hester

#### WATER



We advise that you stop 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. 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. Free water present. There is a light concentration of water present in the oil. 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.

# view report

#### 30 Sep 2019 Diag: Doug Bogart

#### ISO



No corrective action is recommended at this time. 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 condition of the oil is suitable for further service.





## **OIL ANALYSIS REPORT**

Sample Rating Trend



# KAESER 5C 5600853 (S/N 1008)

Compressor

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

### **DIAGNOSIS**

#### Recommendation

No corrective action is recommended at this time. Oil and 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.

		Sep201	Nov2020	Jun2021 Ar	1g2022	
SAMPLE INFORM	MATION	method	limit/base	current	history 1	history 2
Sample Number				KCP30915	KCP26341	KCP34065
Sample Date				26 Aug 2022	22 Jun 2021	19 Nov 2020
Machine Age	hrs			5006	4007	3435
Oil Age	hrs			2961	1000	1500
Oil Changed				Changed	Not Changd	Not Changd
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history 1	history 2
Iron	ppm	ASTM D5185m	>50	0	0	0
Chromium	ppm	ASTM D5185m	>10	0	0	0
Nickel	ppm	ASTM D5185m	>3	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	0
Lead	ppm	ASTM D5185m	>10	0	<1	2
Copper	ppm	ASTM D5185m	>50	30	27	31
Tin	ppm	ASTM D5185m	>10	0	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	0	<1	<1
Barium	ppm	ASTM D5185m	90	<1	0	0
Molybdenum	ppm	ASTM D5185m	0	0	0	0
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m	100	0	2	1
Calcium	ppm	ASTM D5185m	0	<1	0	0
Phosphorus	ppm	ASTM D5185m	0	2	2	2
Zinc	ppm	ASTM D5185m	0	42	31	51
Sulfur	ppm	ASTM D5185m	23500	17112	14783	15390
CONTAMINANTS		method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185m	>25	0	0	0
Sodium	ppm	ASTM D5185m		<1	0	1
Potassium	ppm	ASTM D5185m	>20	0	0	6
Water	%	ASTM D6304	>0.05	0.023	△ 0.095	△ 0.104
ppm Water	ppm	ASTM D6304	>500	238.4	<b>△</b> 950	<b>1</b> 041
FLUID CLEANLIN	ESS	method	limit/base	current	history 1	history 2
Particles >4μm		ASTM D7647		11089		
Particles >6µm		ASTM D7647	>1300	<u>^</u> 3090		
Particles >14μm		ASTM D7647	>80	<u> </u>		
Particles >21µm		ASTM D7647	>20	<u>^</u> 84		
Particles >38μm		ASTM D7647	>4	5		
Particles >71µm		ASTM D7647	>3	0		
Oil Cleanliness		ISO 4406 (c)	>/17/13	<u>21/19/15</u>		
FLUID DEGRADA	TION	method	limit/base	current	history 1	history 2
	1/011/	4 OT1 4 D 00 4 F			0.004	0.000

Acid Number (AN)

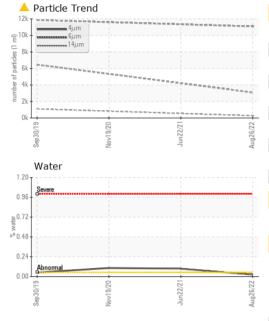
0.304

0.34

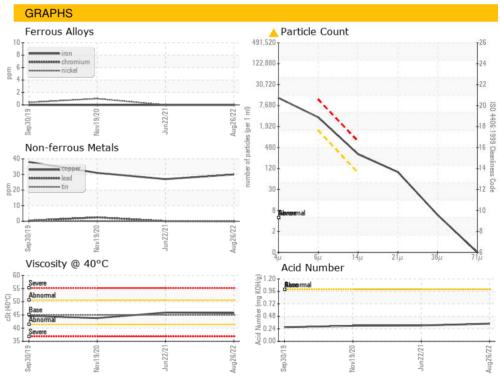
0.298



### **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	▲ MODER	NONE
Debris	scalar	*Visual	NONE	LIGHT	▲ MODER	▲ MODER
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	<b>△</b> 0.2%
Free Water	scalar	*Visual		NEG	<u>▲</u> 1.0	<b>▲</b> 1.0
FLUID PROPERT	TES	method	limit/base	current	history 1	history 2
Visc @ 40°C	cSt	ASTM D445	45	45.7	45.9	43.8
SAMPLE IMAGES		method	limit/base	current	history 1	history 2
Color					J	
Bottom						







Laboratory Sample No. Lab Number Unique Number : 10115116

: KCP30915 : 05630595

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 30 Aug 2022 Diagnosed

: 01 Sep 2022 Diagnostician : Angela Borella

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) **BIRDSONG BREWERY** 1016 N DAVIDSON ST

CHARLOTTE, NC USA 28206

Contact: Service Manager

T:

Contact/Location: Service Manager - BIRCHA

F: