

# **PROBLEM SUMMARY**

Sample Rating Trend



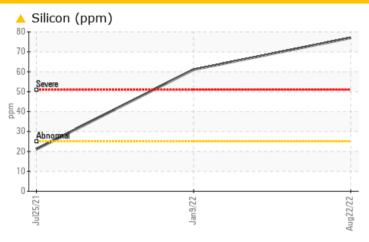
7355500 (S/N 1129)

Component

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				ABNORMAL	SEVERE	ABNORMAL				
Silicon	ppm	ASTM D5185m	>25	<u> </u>	<b>6</b> 1	21				

Customer Id: BOCTAN
Sample No.: KCP48161
Lab Number: 05629588
Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Doug Bogart +1 (800)237-1369 x4016 dougb@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

# 09 Jan 2022 Diag: Don Baldridge

DIRT



We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. All component wear rates are normal. Elemental level of silicon (Si) above normal. 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.



## 25 Jul 2021 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.

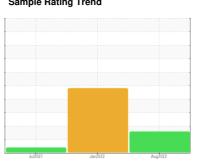
All component wear rates are normal. Moderate concentration of visible dirt/debris present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.





# **OIL ANALYSIS REPORT**

Sample Rating Trend



DIRT

7355500 (S/N 1129)

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

Elemental level of silicon (Si) above normal. The amount and size of particulates present in the system are acceptable.

## **Fluid Condition**

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

		Ju	2021	Jan2022 Aug20	22	
SAMPLE INFORM	MATION	method	limit/base	current	history 1	history 2
Sample Number				KCP48161	KCP31985	KCP41725
Sample Date				22 Aug 2022	09 Jan 2022	25 Jul 2021
Machine Age	hrs			12009	6839	2975
Oil Age	hrs			5170	2221	2074
Oil Changed				Not Changd	Changed	Not Changd
Sample Status				ABNORMAL	SEVERE	ABNORMAL
WEAR METALS		method	limit/base	current	history 1	history 2
Iron	ppm	ASTM D5185m	>50	0	0	<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	<1	<1	0
Aluminum	ppm	ASTM D5185m	>10	0	0	1
Lead	ppm	ASTM D5185m	>10	0	0	0
Copper	ppm	ASTM D5185m	>50	18	17	10
Tin	ppm	ASTM D5185m	>10	0	0	0
Antimony	ppm	ASTM D5185m				1
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	10
Barium	ppm	ASTM D5185m	90	<1	0	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m	90	0	0	5
Calcium	ppm	ASTM D5185m	2	0	0	0
Phosphorus	ppm	ASTM D5185m		1	3	3
Zinc	ppm	ASTM D5185m		0	<1	10
Sulfur	ppm	ASTM D5185m		13131	13656	14608
CONTAMINANTS		method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185m	>25	<u> </u>	<b>6</b> 1	21
Sodium	ppm	ASTM D5185m		0	3	5
Potassium	ppm	ASTM D5185m	>20	0	<1	4
Water	%	ASTM D6304	>0.05	0.008	0.004	0.011
ppm Water	ppm	ASTM D6304	>500	88.5	49.1	113.9
FLUID CLEANLIN	IESS	method	limit/base	current	history 1	history 2
Particles >4µm		ASTM D7647		1318	958	
Particles >6µm		ASTM D7647	>1300	240	74	
Particles >14µm		ASTM D7647	>80	14	9	
Particles >21µm		ASTM D7647	>20	2	2	
Particles >38µm		ASTM D7647	>4	0	0	
Particles >71µm		ASTM D7647	>3	0	0	
Oil Cleanliness		ISO 4406 (c)	>/17/13	18/15/11	13/10	
FLUID DEGRADA	TION	method	limit/base	current	history 1	history 2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.4	0.38	0.39	0.363



# **OIL ANALYSIS REPORT**







Certificate L2367

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

: 05629588

: KCP48161 : 10114109

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

: 29 Aug 2022

: 30 Aug 2022 Diagnostician : Doug Bogart

Test Package : IND 2 ( Additional Tests: KF, PrtCount )

\* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

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

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

**BOCAR US INC** 23727 BIBB GARRET RD

TANNER, AL USA 35671

Contact: Service Manager