

# **PROBLEM SUMMARY**

Sample Rating Trend

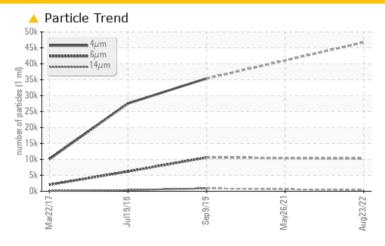
ISO

# Machine Id KAESER CS 91 1627931 (S/N 1022)

Compressor

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

#### **COMPONENT CONDITION SUMMARY**



#### RECOMMENDATION

The oil change at the time of sampling has been noted. We recommend you service the filters on this component. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS							
Sample Status			ABNORMAL	ABNORMAL	ABNORMAL		
Particles >6µm	ASTM D7647	>1300	<b>△</b> 10232		<u> 10595</u>		
Particles >14µm	ASTM D7647	>80	<b>4</b> 357		<b>△</b> 907		
Particles >21µm	ASTM D7647	>20	<u>^</u> 70		<u>^</u> 227		
Oil Cleanliness	ISO 4406 (c)	>/17/13	<b>23/21/16</b>		<u> </u>		

Customer Id: CREPHI Sample No.: KCP49488 Lab Number: 05635029 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**

Action	Status	Date	Done By	Description
Change Filter			?	We recommend you service the filters on this component.

#### HISTORICAL DIAGNOSIS

#### 26 May 2021 Diag: Angela Borella

#### VIS DEBRIS



Oil and 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.



#### 09 Sep 2019 Diag: Don Baldridge

ISO



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. 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.



#### 19 Jul 2018 Diag: Angela Borella

150



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 CS 91 1627931 (S/N 1022)

Compressor

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

#### **DIAGNOSIS**

#### Recommendation

The oil change at the time of sampling has been noted. We recommend you service the filters on this component. 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.

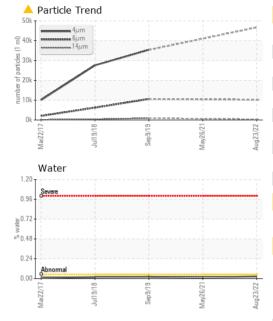
#### **Fluid Condition**

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

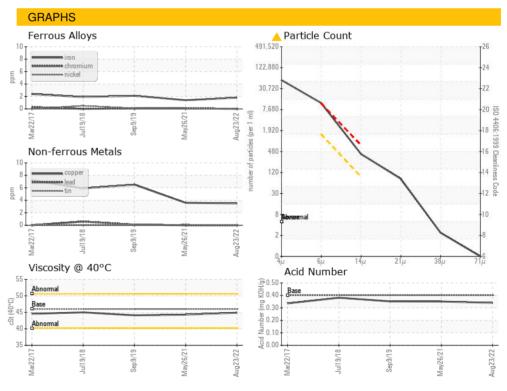
		Mar2017	Jul2018	Sep 2019 May 2021	Aug2022	
SAMPLE INFORM	MATION	method	limit/base	current	history 1	history 2
Sample Number				KCP49488	KCP35521	KCP18257
Sample Date				23 Aug 2022	26 May 2021	09 Sep 2019
Machine Age	hrs			48353	45449	41756
Oil Age	hrs			2871	0	0
Oil Changed				Changed	Changed	Not Changd
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history 1	history 2
Iron	ppm	ASTM D5185m	>50	2	1	2
Chromium	ppm	ASTM D5185m	>10	0	<1	<1
Nickel	ppm	ASTM D5185m	>3	0	0	<1
Titanium	ppm	ASTM D5185m	>3	0	0	<1
Silver	ppm	ASTM D5185m	>2	0	0	<1
Aluminum	ppm	ASTM D5185m	>10	<1	<1	<1
Lead	ppm	ASTM D5185m	>10	0	0	<1
Copper	ppm	ASTM D5185m	>50	4	4	6
Tin	ppm	ASTM D5185m	>10	0	<1	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	14	0
Barium	ppm	ASTM D5185m	90	0	0	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		2	2	2
Magnesium	ppm	ASTM D5185m	90	43	44	38
Calcium	ppm	ASTM D5185m	2	0	0	<1
Phosphorus	ppm	ASTM D5185m		<1	1	2
Zinc	ppm	ASTM D5185m		17	18	13
Sulfur	ppm	ASTM D5185m		18213	16043	16028
CONTAMINANTS		method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185m	>25	0	0	<1
Sodium	ppm	ASTM D5185m		20	20	14
Potassium	ppm	ASTM D5185m	>20	2	4	3
Water	%	ASTM D6304	>0.05	0.025	0.015	0.022
ppm Water	ppm	ASTM D6304	>500	250.3	158.6	227.0
FLUID CLEANLIN	IESS	method	limit/base	current	history 1	history 2
Particles >4μm		ASTM D7647		46725		35388
Particles >6μm		ASTM D7647		<u> </u>		<u>10595</u>
Particles >14µm		ASTM D7647	>80	<b>4</b> 357		<u>^</u> 907
Particles >21µm		ASTM D7647	>20	<u>^</u> 70		<u>^</u> 227
Particles >38µm		ASTM D7647	>4	2		<u>^</u> 7
Particles >71μm		ASTM D7647		0		0
Oil Cleanliness		ISO 4406 (c)	>/17/13	<u>23/21/16</u>		<u>▲</u> 21/17
FLUID DEGRADA	TION	method	limit/base	current	history 1	history 2



### **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	▲ MODER	LIGHT
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	IES	method	limit/base	current	history 1	history 2
Visc @ 40°C	cSt	ASTM D445	46	44.9	44.3	44.1
SAMPLE IMAGES	6	method	limit/base	current	history 1	history 2
Color						
Bottom						







Laboratory Sample No. Lab Number Unique Number : 10124559

: KCP49488 : 05635029

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

: 06 Sep 2022 : 08 Sep 2022 Diagnostician : Don Baldridge

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)

**CRESCENT IRON WORKS** 

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USA 19143

Contact: SERVICE MANAGER

T: F: