

## **PROBLEM SUMMARY**

# KAESER SK 15 4967477 (S/N 1581)

Compressor

KAESER SIGMA (OEM) S-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 ABNORMAL NORMAL ABNORMAL 552 Particles >6µm ASTM D7647 >1300 3478 465 Particles >14µm ASTM D7647 >80 226 **4** 94 23 ▲ 5 Particles >21µm ASTM D7647 >20 46 32 **Oil Cleanliness** ISO 4406 (c) >17/13 **1**9/15 ▲ 16/14 16/12

Customer Id: ARGBOW Sample No.: KC104581 Lab Number: 05630597 Test Package: IND 2



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*To discuss the diagnosis or test data:* Doug Bogart +1 (800)237-1369 x4016 <u>dougb@wearcheckusa.com</u>

To change component or sample information: Customer Service +1 1-800-237-1369 customerservice@wearcheck.com



RECOMMENDED AC	FIONS			
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 Aug 2021 Diag: Doug Bogart

The filter change at the time of sampling has been noted. We advise that you stop the unit and follow the water drain-off procedure for this component. We recommend an early resample in 500 hours to monitor this condition.All component wear rates are normal. There is a moderate amount of particulates present in the oil. There is a moderate concentration of water present in the oil. Free water present. The AN level is acceptable for this fluid.



view report

#### 03 Feb 2021 Diag: Angela Borella



Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the component. The amount and size of particulates present in the system is acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

#### 29 May 2020 Diag: Angela Borella

#### NORMAL



Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the component. The amount and size of particulates present in the system is acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

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## **OIL ANALYSIS REPORT**

KAESER SK 15 4967477 (S/N 1581)

**Compressor** Fluid

KAESER SIGMA (OEM) S-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.



SAMPLE INFORM	IATION	method	limit/base	current	history 1	history 2
Sample Number				KC104581	KC97943	KC90379
Sample Date				15 Aug 2022	22 Aug 2021	03 Feb 2021
Machine Age	hrs			16676	14241	12766
Oil Age	hrs			2332	1475	1362
Oil Changed				Changed	Not Changd	Changed
Sample Status				ABNORMAL	ABNORMAL	NORMAL
WEAR METALS		method	limit/base	current	history 1	history 2
Iron	ppm	ASTM D5185m	>50	<1	<1	0
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	0	<1	0
Aluminum	ppm	ASTM D5185m	>10	<1	<1	<1
Lead	ppm	ASTM D5185m	>10	0	0	0
Copper	ppm	ASTM D5185m	>50	13	5	2
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	14	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	2	30	44
Calcium	ppm	ASTM D5185m	2	0	0	0
Phosphorus	ppm	ASTM D5185m		<1	1	<1
Zinc	ppm	ASTM D5185m		16	6	10
CONTAMINANTS		method	limit/base	current	history 1	history 2
Silicon	maa	ASTM D5185m	>25	0	0	0
Sodium	ppm	ASTM D5185m		1	0	9
Potassium	ppm	ASTM D5185m	>20	0	0	0
Water	%	ASTM D6304	>0.05	0.010	0.506	0.042
ppm Water	ppm	ASTM D6304	>500	102.2	▲ 5060	425.8
FLUID CLEANLIN	ESS	method	limit/base	current	history 1	history 2
Particles >4µm		ASTM D7647		10038	1014	1801
Particles >6µm		ASTM D7647	>1300	<b>A</b> 3478	552	465
Particles >14µm		ASTM D7647	>80	<b>226</b>	<b>9</b> 4	23
Particles >21µm		ASTM D7647	>20	<u> </u>	<b>A</b> 32	5
Particles >38µm		ASTM D7647	>4	1	<b>5</b>	0
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>17/13	<b>1</b> 9/15	▲ 16/14	16/12
FLUID DEGRADA	TION	method	limit/base	current	history 1	history 2
Acid Number (AN)	ma KOH/a	ASTM D8045	0.4	0.40	0.379	0.470

Contact/Location: ? ? - ARGBOW



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## **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	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	🔺 HAZY	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.05	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	<b>1</b> .0	NEG
FLUID PROPERTIES						
FLUID PROPERT	IES	method	limit/base	current	history 1	history 2
FLUID PROPERT	I <mark>ES</mark> cSt	method ASTM D445	limit/base 46	current 44.68	history 1 43.6	history 2 43.7
FLUID PROPERT Visc @ 40°C SAMPLE IMAGES	IES cSt	method ASTM D445 method	limit/base 46 limit/base	current 44.68 current	history 1 43.6 history 1	history 2 43.7 history 2
FLUID PROPERT Visc @ 40°C SAMPLE IMAGES Color	iES cSt	method ASTM D445 method	limit/base 46 limit/base	current 44.68 current	history 1 43.6 history 1	history 2 43.7 history 2



Contact/Location: ? ? - ARGBOW

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