

## **PROBLEM SUMMARY**

# KAESER SX 7.5 3867521 (S/N 1036)

Compressor

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

## COMPONENT CONDITION SUMMARY



## RECOMMENDATION

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.

PROBLEMATIC TEST RESULTS								
Sample Status				SEVERE	ABNORMAL	ATTENTION		
Water	%	ASTM D6304	>0.05	<b>A</b> 0.140	▲ 0.505	0.026		
ppm Water	ppm	ASTM D6304	>500	<b>1400</b>	<b>6</b> 5050	268.6		
Emulsified Water	scalar	*Visual	>0.05	<u> </u>	▲ 0.2%	NEG		
Free Water	scalar	*Visual		<b> </b> >10%	<u> </u>	NEG		

Customer Id: GROSOUKC Sample No.: KCPA011290 Lab Number: 06013344 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 <u>jhester@wearcheckusa.com</u>

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



There are no recommended actions for this sample.

### HISTORICAL DIAGNOSIS

#### 12 Dec 2022 Diag: Don Baldridge



We recommend you service the filters on this component. We were unable to perform a particle count due to a high concentration of particles present in this sample. We advise that you stop the unit and follow the water drainoff 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 concentration of water present in the oil. Excessive free water present. The AN level is acceptable for this fluid.



11 Sep 2021 Diag: Don Baldridge

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.All component wear rates are normal. There is a moderate 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.



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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. 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.





## **OIL ANALYSIS REPORT**



Compressor Fluic

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

## DIAGNOSIS

## Recommendation

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.

### Wear

All component wear rates are normal.

## Contamination

Excessive free water present. There is a light concentration of water present in the oil. 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.



SAMPLE INFORM	ΛΑΤΙΟΝ	method	limit/base	current	history1	history2
Sample Number		Client Info		KCPA011290	KCP55713	KCP45521
Sample Date		Client Info		13 Nov 2023	12 Dec 2022	28 Apr 2022
Machine Age	hrs	Client Info		16472	14530	13552
Oil Age	hrs	Client Info		0	1000	3000
Oil Changed		Client Info		N/A	Not Changd	Changed
Sample Status				SEVERE	ABNORMAL	ATTENTION
WEAR METALS		method	limit/base	current	history1	history2
Iron	nom	ASTM D5185m	>50	0	<1	<1
Chromium	mag	ASTM D5185m	>10	0	0	0
Nickel	maa	ASTM D5185m	>3	1	0	0
Titanium	mag	ASTM D5185m	>3	0	0	0
Silver	ppm	ASTM D5185m	>2	0	<1	<1
Aluminum	ppm	ASTM D5185m	>10	0	0	<1
Lead	ppm	ASTM D5185m	>10	0	<1	0
Copper	ppm	ASTM D5185m	>50	8	13	4
Tin	ppm	ASTM D5185m	>10	<1	<1	<1
Antimony	ppm	ASTM D5185m				
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	mag	ASTM D5185m	0	0	<1	1
Barium	ppm	ASTM D5185m	90	1	0	0
Molvbdenum	maa	ASTM D5185m	0	0	0	0
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m	100	27	12	40
Calcium	ppm	ASTM D5185m	0	3	3	<1
Phosphorus	ppm	ASTM D5185m	0	2	2	8
Zinc	ppm	ASTM D5185m	0	26	45	38
Sulfur	ppm	ASTM D5185m	23500	18377	21944	17379
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<1	<1	1
Sodium	ppm	ASTM D5185m		1	0	12
Potassium	ppm	ASTM D5185m	>20	0	<1	1
Water	%	ASTM D6304	>0.05	<u> </u>	▲ 0.505	0.026
ppm Water	ppm	ASTM D6304	>500	<b>1400</b>	▲ 5050	268.6
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		783		6682
Particles >6µm		ASTM D7647	>1300	427		<b>1</b> 959
Particles >14µm		ASTM D7647	>80	73		<b>1</b> 09
Particles >21µm		ASTM D7647	>20	24		18
Particles >38µm		ASTM D7647	>4	4		1
Particles >71µm		ASTM D7647	>3	0		0
Oil Cleanliness		ISO 4406 (c)	>/17/13	17/16/13		▲ 20/18/14
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Acid Number (AN)	ma KOH/a	ASTM D8045	1.0	0.29	0.37	0.32

Acid Number (AN) Report Id: GROSOUKC [WUSCAR] 06013344 (Generated: 11/29/2023 23:23:13) Rev: 1

mg KOH/g ASTM D8045 1.0

Contact/Location: SERVICE MANAGER - GROSOUKC



## **OIL ANALYSIS REPORT**







VISUAL		method	limit/base	current	history1	history2
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	NONE	🔺 MODER	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	<b>0.2%</b>	▲ 0.2%	NEG
Free Water	scalar	*Visual		<b>e</b> >10%	▲ >10%	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	45	46.1	46.0	45.4
SAMPLE IMAGES	;	method	limit/base	current	history1	history2
Color						
Bottom						



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