

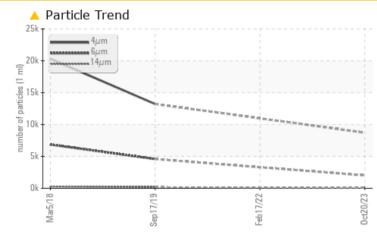
## **PROBLEM SUMMARY**

# KAESER SX 5 4942010 (S/N 1277)

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			ATTENTION	ABNORMAL	ABNORMAL		
Particles >6µm	ASTM D7647	>1300	<u> </u>		<b>4</b> 582		
Oil Cleanliness	ISO 4406 (c)	>/17/13	<b>A</b> 20/18/13		<b>1</b> 9/15		

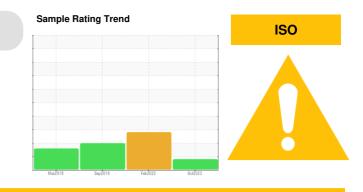
Customer Id: PHIMIA Sample No.: KC06006991 Lab Number: 06006991 Test Package: IND 2



To manage this report scan the QR code

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

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



### **RECOMMENDED ACTIONS**

There are no recommended actions for this sample.

## **HISTORICAL DIAGNOSIS**

## 17 Feb 2022 Diag: Don Baldridge



Oil and 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. Moderate concentration of visible dirt/debris present in the oil. There is a light concentration of water present in the oil. The AN level is acceptable for this fluid.



view report

## 17 Sep 2019 Diag: Don Baldridge

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.

05 Mar 2018 Diag: Doug Bogart



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**

# KAESER SX 5 4942010 (S/N 1277)

**Compressor** Fluid

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

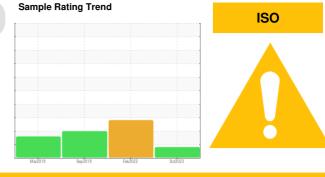
All component wear rates are normal.

## Contamination

There is a moderate amount of silt (particulates < 14 microns in size) present in the oil.

### Fluid Condition

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

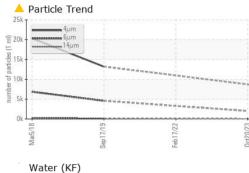


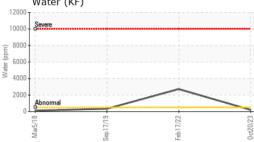
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KC06006991	KC81299	KC80852
Sample Date		Client Info		20 Oct 2023	17 Feb 2022	17 Sep 2019
Machine Age	hrs	Client Info		29309	22396	11661
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	Changed	Changed
Sample Status				ATTENTION	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	0	0	<1
Chromium	ppm	ASTM D5185m	>10	<1	0	0
Nickel	ppm	ASTM D5185m	>3	0	0	0
Titanium	ppm	ASTM D5185m	>3	<1	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>10	1	<1	<1
Lead	ppm	ASTM D5185m	>10	0	0	<1
Copper	ppm	ASTM D5185m		6	7	2
Tin	ppm	ASTM D5185m		0	0	0
Antimony	ppm	ASTM D5185m	-		0	0
Vanadium	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m		0	0	<1
ADDITIVES	ppm	method	limit/base	current	history1	history2
			IIIIII/Dase			
Boron	ppm	ASTM D5185m		0	3	0
Barium	ppm	ASTM D5185m	90	23	36	50
Molybdenum	ppm	ASTM D5185m		0	0	<1
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m	90	34	49	73
Calcium	ppm	ASTM D5185m	2	1	<1	<1
Phosphorus	ppm	ASTM D5185m		8	2	0
Zinc	ppm	ASTM D5185m		7	9	11
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<1	0	<1
Sodium	ppm	ASTM D5185m		2	2	6
Potassium	ppm	ASTM D5185m	>20	2	0	0
Water	%	ASTM D6304	>0.05	0.019	▲ 0.272	0.034
ppm Water	ppm	ASTM D6304	>500	197.2	▲ 2720	341.0
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		8723		13215
Particles >6µm		ASTM D7647	>1300	<u> </u>		<b>4</b> 582
Particles >14µm		ASTM D7647	>80	67		<b>1</b> 87
Particles >21µm		ASTM D7647	>20	13		<b>4</b> 4
Particles >38µm		ASTM D7647	>4	1		▲ 8
Particles >71µm		ASTM D7647	>3	0		<u> </u>
Oil Cleanliness		ISO 4406 (c)	>/17/13	<b>20/18/13</b>		▲ 19/15
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.4	0.33	0.38	0.325

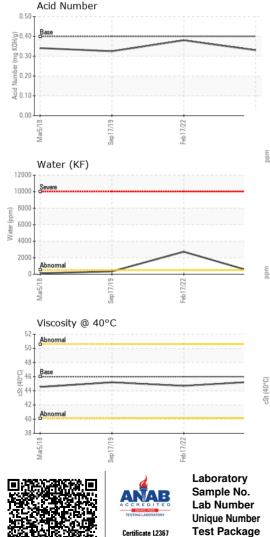
Contact/Location: Service Manager - PHIMIA



## **OIL ANALYSIS REPORT**

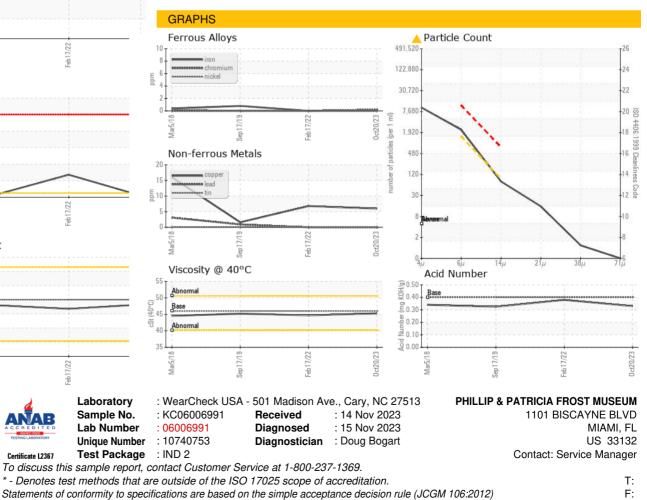






VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	LIGHT	🔺 MODER	VLITE
Sand/Dirt	scalar	*Visual	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	▲ 0.2%	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	TIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	46	45.3	44.7	45.2
SAMPLE IMAGES	S	method	limit/base	current	history1	history2
Color				a.		

Bottom



Contact/Location: Service Manager - PHIMIA