

PROBLEM SUMMARY

KAESER SM 10 5399168 (S/N 1752) Component

Compressor

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

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

TROBLEMATIO	LOTINE	30L13				
Sample Status				ABNORMAL	NORMAL	ABNORMAL
Copper	ppm	ASTM D5185m	>50	<u> </u>	2	<1
Particles >6µm		ASTM D7647	>1300	<u> </u>	279	🔺 15147
Particles >14µm		ASTM D7647	>80	<u> </u>	22	<u> </u>
Particles >21µm		ASTM D7647	>20	<mark>/</mark> 34	8	<u> </u>
Oil Cleanliness		ISO 4406 (c)	>/17/13	<u> </u>	15/12	<u> </u>

Customer Id: FEDTWI Sample No.: KC104902 Lab Number: 05622447 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 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



08 Apr 2022 Diag: Don Baldridge

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



view report

view report

07 Oct 2021 Diag: Don Baldridge



We recommend you service the filters on this component. 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.

29 Sep 2021 Diag: Jonathan Hester



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. Appearance is hazy. There is a high 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. The condition of the oil is suitable for further service.









OIL ANALYSIS REPORT

KAESER SM 10 5399168 (S/N 1752)

Compressor Fluid

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

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

An increase in the copper level is noted. All other 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				KC104902	KC96272	KC100467
Sample Date				16 Aug 2022	08 Apr 2022	07 Oct 2021
Machine Age	hrs			21325	18301	16097
Oil Age	hrs			5328	2400	0
Oil Changed				Changed	Not Changd	Not Changd
Sample Status				ABNORMAL	NORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history 1	history 2
Iron	ppm	ASTM D5185m	>50	0	<1	<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	0	0	0
Aluminum	ppm	ASTM D5185m	>10	0	<1	<1
Lead	ppm	ASTM D5185m	>10	0	0	0
Copper	ppm	ASTM D5185m	>50	<u> </u>	2	<1
Tin	ppm	ASTM D5185m	>10	<1	<1	<1
Antimony	ppm	ASTM D5185m				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	maa	ASTM D5185m		<1	<1	13
Barium	ppm	ASTM D5185m	90	0	0	20
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		0	0	<1
Magnesium	ppm	ASTM D5185m	90	9	58	79
Calcium	ppm	ASTM D5185m	2	0	1	3
Phosphorus	ppm	ASTM D5185m		0	0	1
Zinc	ppm	ASTM D5185m		12	2	3
CONTAMINANTS	;	method	limit/base	current	history 1	history 2
Silicon	maa	ASTM D5185m	>25	4	6	2
Sodium	mag	ASTM D5185m		2	21	12
Potassium	ppm	ASTM D5185m	>20	0	4	1
Water	%	ASTM D6304	>0.05	0.008	0.020	0.025
ppm Water	ppm	ASTM D6304	>500	88.6	205.3	259.5
FLUID CLEANLIN	IESS	method	limit/base	current	history 1	history 2
Particles >4µm		ASTM D7647		7553	1035	43026
Particles >6µm		ASTM D7647	>1300	<u> </u>	279	▲ 15147
Particles >14µm		ASTM D7647	>80	<u> </u>	22	1 300
Particles >21µm		ASTM D7647	>20	<u> </u>	8	<u> </u>
Particles >38µm		ASTM D7647	>4	2	0	1 3
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>/17/13	20/19/15	15/12	2 1/17
FLUID DEGRADA	TION	method	limit/base	current	history 1	history 2

Contact/Location: Service Manager - FEDTWI



Built for a lifetime.

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	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	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	44.2	44.3	44.2
SAMPLE IMAGES	6	method	limit/base	current	history 1	history 2
Color						
Bottom						



Contact/Location: Service Manager - FEDTWI