

PROBLEM SUMMARY

KAESER S K20T 4707957 (S/N 1231)

Compressor

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

COMPONENT CONDITION SUMMARY



RECOMMENDATION

The filter change at the time of sampling has been noted. 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 drain-off procedure for this component. We recommend an early resample in 500 hours to monitor this condition.

PROBLEMATIC TEST RESULTS ABNORMAL Sample Status ABNORMAL ABNORMAL Water % ASTM D6304 >0.05 0.346 0.022 0.032 ppm Water ASTM D6304 >500 3460 227.8 328.8 ppm NONE Silt scalar *Visual MODER NONE NONE Debris scalar *Visual NONE MODER VLITE NONE NORML *Visual HAZY NORML NORML Appearance scalar **Emulsified Water** scalar *Visual >0.05 **0.2%** NEG NEG Free Water NEG NEG scalar *Visual 10.0

Customer Id: BSNFAR Sample No.: KCPA004470 Lab Number: 05922174 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 <u>customerservice@wearcheck.com</u>



RECOMMENDED ACTIONS						
Action	Status	Date	Done By			
Alert			?			

Description

We were unable to perform a particle count due to a high concentration of particles present in this sample.

HISTORICAL DIAGNOSIS



20 Jan 2023 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 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.



view report

09 Aug 2022 Diag: Jonathan Hester



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.

20 Jan 2022 Diag: Don Baldridge

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









OIL ANALYSIS REPORT



Compressor Fluic

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

DIAGNOSIS

Recommendation

The filter change at the time of sampling has been noted. 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 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

Moderate concentration of visible dirt/debris present in the oil. There is a moderate amount of visible silt present in the sample. There is a light concentration of water present in the oil. Excessive free water present.

Report Id: BSNFAR [WUSCAR] 05922174 (Generated: 08/14/2023 09:46:56) Rev: 1

Fluid Condition

The AN level is acceptable for this fluid.



SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KCPA004470	KCP55756	KCP51555
Sample Date		Client Info		27 Jul 2023	20 Jan 2023	09 Aug 2022
Machine Age	hrs	Client Info		23757	22259	21290
Oil Age	hrs	Client Info		0	968	501
Oil Changed		Client Info		N/A	Changed	Not Changd
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	0	0	0
Chromium	ppm	ASTM D5185m	>10	0	0	0
Nickel	ppm	ASTM D5185m	>3	4	0	0
Titanium	ppm	ASTM D5185m	>3	0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	<1
Aluminum	ppm	ASTM D5185m	>10	2	0	1
Lead	ppm	ASTM D5185m	>10	0	0	0
Copper	ppm	ASTM D5185m	>50	8	7	2
Tin	ppm	ASTM D5185m	>10	0	0	<1
Antimony	ppm	ASTM D5185m				
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m	90	0	0	2
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		<1	0	0
Magnesium	ppm	ASTM D5185m	90	47	55	74
Calcium	ppm	ASTM D5185m	2	<1	0	<1
Phosphorus	ppm	ASTM D5185m		4	2	2
	ppm	ASTM D5185m		0	0	2
Sultur	ppm	ASTM D5185m		21233	19897	18309
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<1	0	0
Sodium	ppm	ASTM D5185m		6	20	14
Potassium	ppm	ASTM D5185m	>20	<1	<1	<1
Water	%	ASTM D6304	>0.05	0.346	0.022	0.032
ppm Water	ppm	ASTM D6304	>500	A 3460	227.8	328.8
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647			12219	15407
Particles >6µm		ASTM D7647	>1300		4 189	▲ 3350
Particles >14µm		ASTM D7647	>80		A 310	▲ 378
Particles >21µm		ASTM D7647	>20		▲ 73	▲ 119
Particles >38µm		ASTM D7647	>4		6	▲ 12
Particles >71µm		ASTM D7647	>3			1
Oil Cleanliness		150 4406 (C)	>/1//13		21/19/15	21/19/16
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	ma KOH/a	ASTM D8045	0.4	0.35	0.31	0.42

Acid Number (AN)

mg KOH/g ASTM D8045 0.4

Contact/Location: SERVICE MANAGER ? - BSNFAR



OIL ANALYSIS REPORT







VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	LIGHT
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	🔺 MODER	NONE	NONE
Debris	scalar	*Visual	NONE	A MODER	VLITE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	🔺 HAZY	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.05	6.2%	NEG	NEG
Free Water	scalar	*Visual		<u> </u>	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	46	44.7	46.6	44.4
SAMPLE IMAGES		method	limit/base	current	history1	history2

Color



Bottom





Contact/Location: SERVICE MANAGER ? - BSNFAR