

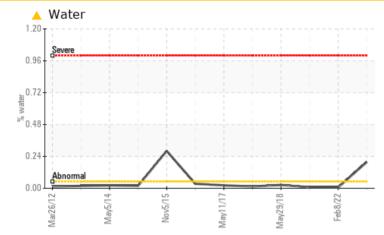
# **PROBLEM SUMMARY**

#### Machine Ic KAESER SK20T 4146059 (S/N 1024) Component

Compressor

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





# RECOMMENDATION

The filter change at the time of sampling has been noted. We were unable to perform a particle count on 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							
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL	
Water	%	ASTM D6304	>0.05	<b>A</b> 0.198	0.006	0.008	
ppm Water	ppm	ASTM D6304	>500	🔺 1976	68.3	80	
Appearance	scalar	*Visual	NORML	🔺 HAZY	NORML	NORML	

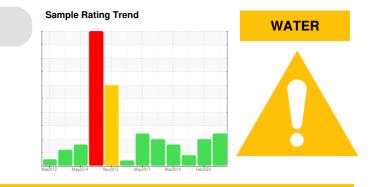
Customer Id: THENAZ Sample No.: KC104865 Lab Number: 05636524 Test Package: IND 2



To manage this report scan the QR code

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

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



RECOMMEND	ED ACTIONS			
Action	Status	Date	Done By	D
Alert			?	W p

#### Description

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

# HISTORICAL DIAGNOSIS



08 Feb 2022 Diag: Jonathan Hester

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. The aluminum level is abnormal. All other 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.

#### 23 Jan 2019 Diag: Angela Borella



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.



#### 29 May 2018 Diag: Jonathan Hester

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.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



# **OIL ANALYSIS REPORT**

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#### Machine Id KAESER SK20T 4146059 (S/N 1024) Component

Compressor Fluic

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

# DIAGNOSIS

## Recommendation

The filter change at the time of sampling has been noted. We were unable to perform a particle count on 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

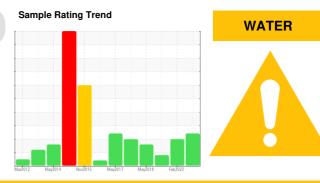
All component wear rates are normal.

#### Contamination

Appearance is hazy. There is a moderate concentration of water present in the oil.

## Fluid Condition

The AN level is acceptable for this fluid.



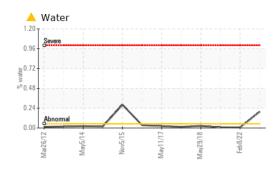
SAMPLE INFORM	MATION	method	limit/base	current	history 1	history 2
Sample Number				KC104865	KC95102	KC68163
Sample Date				11 Aug 2022	08 Feb 2022	23 Jan 2019
Machine Age	hrs			32361	32359	17513
Oil Age	hrs			1	4372	6867
Oil Changed				Not Changd	Changed	Changed
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history 1	history 2
Iron	ppm	ASTM D5185m	>50	1	7	<1
Chromium	ppm	ASTM D5185m	>10	0	0	0
Nickel	ppm	ASTM D5185m	>3	0	0	<1
Titanium	ppm	ASTM D5185m	>3	0	0	0
Silver	ppm	ASTM D5185m	>2	0	<1	0
Aluminum	ppm	ASTM D5185m	>10	2	<b>1</b> 1	0
Lead	ppm	ASTM D5185m	>10	0	0	<1
Copper	ppm	ASTM D5185m	>50	2	10	14
Tin	ppm	ASTM D5185m	>10	0	0	0
Antimony	ppm	ASTM D5185m	210			3
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium		ASTM D5185m		0	0	<1
	ppm			0		
ADDITIVES		method	limit/base	current	history 1	history 2
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m	90	41	0	0
Molybdenum	ppm	ASTM D5185m		0	0	<1
Manganese	ppm	ASTM D5185m		0	<1	0
Magnesium	ppm	ASTM D5185m	90	54	3	30
Calcium	ppm	ASTM D5185m	2	0	0	0
Phosphorus	ppm	ASTM D5185m		25	134	<1
Zinc	ppm	ASTM D5185m		22	96	2
CONTAMINANTS	6	method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185m	>25	0	0	0
Sodium	ppm	ASTM D5185m		4	3	9
Potassium	ppm	ASTM D5185m	>20	0	0	5
Water	%	ASTM D6304	>0.05	<b>A</b> 0.198	0.006	0.008
ppm Water	ppm	ASTM D6304	>500	<b>人</b> 1976	68.3	80
FLUID CLEANLIN	IESS	method	limit/base	current	history 1	history 2
Particles >4µm		ASTM D7647			27001	8382
Particles >6µm		ASTM D7647	>1300		6052	<b>A</b> 3073
Particles >14µm		ASTM D7647	>80		<b>2</b> 56	<b>1</b> 31
Particles >21µm		ASTM D7647	>20		<b>A</b> 30	25
Particles >38µm		ASTM D7647	>4		0	1
Particles >71µm		ASTM D7647	>3		0	0
Oil Cleanliness		ISO 4406 (c)	>/17/13		▲ 20/15	▲ 19/14
FLUID DEGRADA	ATION	method	limit/base	current	history 1	history 2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.36	0.35	0.408

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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	NONE	NONE	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	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT		method	limit/base	a sum a sat	Intertown of	biotom 0
FLUID FROFER I	IES	method	iiiiii/base	current	history 1	history 2
Visc @ 40°C	cSt	ASTM D445	46	44.0	45.8	44.1
	cSt					
Visc @ 40°C	cSt	ASTM D445	46	44.0	45.8	44.1
Visc @ 40°C SAMPLE IMAGES	cSt	ASTM D445	46	44.0	45.8	44.1

