

PROBLEM SUMMARY

KAESER AIRCENTER SK 15 4488634 (S/N 2619)

Compressor



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							
Sample Status				ABNORMAL	NORMAL	NORMAL	
Water	%	ASTM D6304	>0.05	A 0.265	0.017	0.010	
ppm Water	ppm	ASTM D6304	>500	🔺 2650	173.2	106.7	
White Metal	scalar	*Visual	NONE	🔺 HEAVY	NONE	NONE	
Appearance	scalar	*Visual	NORML	🔺 HAZY	NORML	NORML	

Customer Id: CESWAS Sample No.: KCPA004243 Lab Number: 05903795 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Angela Borella +1 800-237-1369 angela.borella@wearcheckusa.com

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			?			

29 Jul 2022 Diag: Don Baldridge

Description

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

HISTORICAL DIAGNOSIS



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

25 Feb 2021 Diag: Angela Borella



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. 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.

23 Sep 2019 Diag: Jonathan Hester

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. Elemental level of silicon (Si) above normal indicating ingress of seal material. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.









OIL ANALYSIS REPORT

Machine Id KAESER AIRCENTER SK 15 4488634 (S/N 2619) Component

Compressor Fluic

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

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.

A Wear

High concentration of visible metal present. All component wear rates are normal.

Contamination

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

Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.



SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KCPA004243	KCP48352	KCP34950
Sample Date		Client Info		30 Jun 2023	29 Jul 2022	25 Feb 2021
Machine Age	hrs	Client Info		48253	44117	37804
Oil Age	hrs	Client Info		0	6313	6185
Oil Changed		Client Info		N/A	Changed	Changed
Sample Status				ABNORMAL	NORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	<1	0	0
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	<1
Aluminum	ppm	ASTM D5185m	>10	<1	0	0
Lead	ppm	ASTM D5185m	>10	0	0	0
Copper	ppm	ASTM D5185m	>50	2	7	7
Tin	ppm	ASTM D5185m	>10	0	<1	0
Antimony	ppm	ASTM D5185m				0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	<1
Barium	ppm	ASTM D5185m	90	0	0	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		<1	0	<1
Magnesium	ppm	ASTM D5185m	90	43	13	18
Calcium	ppm	ASTM D5185m	2	1	0	0
Phosphorus	ppm	ASTM D5185m		1	4	0
Zinc	ppm	ASTM D5185m		0	7	2
Sulfur	ppm	ASTM D5185m		23171	16581	15668
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	0	0	4
Sodium	ppm	ASTM D5185m		15	8	11
Potassium	ppm	ASTM D5185m	>20	1	0	1
Water	%	ASTM D6304	>0.05	A 0.265	0.017	0.010
ppm Water	ppm	ASTM D6304	>500	A 2650	173.2	106.7
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647			916	3554
Particles >6µm		ASTM D7647	>1300		314	992
Particles >14µm		ASTM D7647	>80		30	68
Particles >21µm		ASTM D7647	>20		4	1/
Particles >38µm		ASTM D7647	>4		1	0
Particles >/1µm		ASTM D/64/	>3		0	U 17/10
Oil Cleaniness		15U 44Ub (C)	>/1//13		17/15/12	17/13
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	ma KOH/a	ASTM D8045	0.4	0.36	0.28	0.339

Acid Number (AN) Report Id: CESWAS [WUSCAR] 05903795 (Generated: 07/24/2023 14:35:41) Rev: 1

mg KOH/g ASTM D8045 0.4

Contact/Location: SERVICE MANAGER ? - CESWAS



OIL ANALYSIS REPORT







VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	A HEAVY	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	LIGHT
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	0.2%	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	46	44.3	44.2	44.3
SAMPLE IMAGES	6	method	limit/base	current	history1	history2

Color



Bottom



Certificate L2367

Contact/Location: SERVICE MANAGER ? - CESWAS