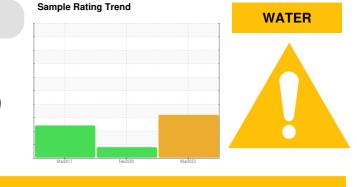


KAESER COMPRESSORS Built for a lifetime."

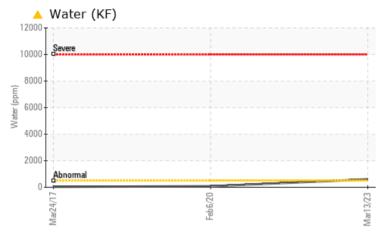
KAESER AIRCENTER SM 10 3110662 (S/N 1214)

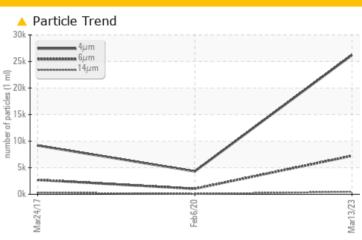
Compressor





COMPONENT CONDITION SUMMARY





RECOMMENDATION

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

THOBEENINTIOT	201112	.00210				
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
Water	%	ASTM D6304	>0.05	0.060	0.007	0.004
ppm Water	ppm	ASTM D6304	>500	<u> </u>	75.0	40
Particles >6µm		ASTM D7647	>1300	A 7236	1030	<u> </u>
Particles >14µm		ASTM D7647	>80	467	68	A 306
Particles >21µm		ASTM D7647	>20	<u> </u>	27	1 06
Oil Cleanliness		ISO 4406 (c)	>17/13	 20/16	17/13	1 9/15

Customer Id: PENCRA Sample No.: KCPA001549 Lab Number: 05796682 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 customerservice@wearcheck.com There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS

06 Feb 2020 Diag: Doug Bogart

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. The copper level is abnormal. All other 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.



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.





Report Id: PENCRA [WUSCAR] 05796682 (Generated: 11/01/2023 10:16:33) Rev: 1





OIL ANALYSIS REPORT

KAESER AIRCENTER SM 10 3110662 (S/N 1214)

Compressor

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

DIAGNOSIS

Recommendation

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

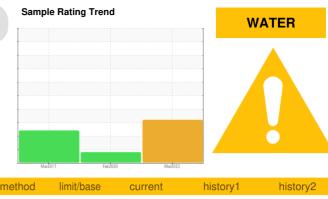
All component wear rates are normal.

Contamination

There is a high amount of particulates present in the oil. 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		KCPA001549	KCP20542	KCP71270
Sample Date		Client Info		13 Mar 2023	06 Feb 2020	24 Mar 2017
Machine Age	hrs	Client Info		16914	13889	11668
Oil Age	hrs	Client Info		0	2221	371
Oil Changed		Client Info		N/A	Changed	N/A
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	0	<1	<1
Chromium	ppm	ASTM D5185m		0	0	0
Nickel	ppm	ASTM D5185m	>3	0	<1	1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>2	0	<1	<1
Aluminum		ASTM D5185m		0	0	0
Lead	ppm	ASTM D5185m	>10	0	<1	0
Copper	ppm ppm	ASTM D5185m		13	< 1	8
Tin		ASTM D5185m	>50 >10	0	0	0
	ppm	ASTM D5185m	>10		0	2
Antimony Vanadium	ppm			0	0	<1
	ppm	ASTM D5185m		0	0	
Cadmium	ppm	ASTM D5185m		U		0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	<1	0
Barium	ppm	ASTM D5185m	90	0	0	<1
Molybdenum	ppm	ASTM D5185m	0	0	0	0
Manganese	ppm	ASTM D5185m		<1	0	0
Magnesium	ppm	ASTM D5185m	100	6	0	5
Calcium	ppm	ASTM D5185m	0	0	<1	0
Phosphorus	ppm	ASTM D5185m	0	<1	0	0
Zinc	ppm	ASTM D5185m	0	42	0	45
Sulfur	ppm	ASTM D5185m	23500	21648	15133	17416
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	2	<1	0
Sodium	ppm	ASTM D5185m		2	0	2
Potassium	ppm	ASTM D5185m	>20	0	0	0
Water	%	ASTM D6304	>0.05	6 0.060	0.007	0.004
ppm Water	ppm	ASTM D6304	>500	<mark>▲</mark> 600	75.0	40
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		26204	4310	9169
Particles >6µm		ASTM D7647	>1300	<u> </u>	1030	A 2709
Particles >14µm		ASTM D7647	>80	467	68	A 306
Particles >21µm		ASTM D7647	>20	<u> </u>	27	1 06
Particles >38µm		ASTM D7647	>4	5	6	1 7
Particles >71µm		ASTM D7647	>3	0	2	<u> </u>
Oil Cleanliness		ISO 4406 (c)	>17/13	A 20/16	17/13	▲ 19/15
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)		ASTM D8045		0.32	0.338	0.330
	III III III III III	1011VI D0040	1.0	0.02	0.000	0.000

Acid Number (AN) mg KOH/ Report Id: PENCRA [WUSCAR] 05796682 (Generated: 11/01/2023 10:16:33) Rev: 1

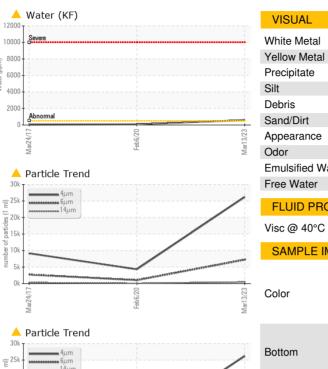
mg KOH/g ASTM D8045 1.0

0.32 0.338 0.330 Contact/Location: JOHN PALMER - PENCRA



Water (ppm)

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	NONE	LIGHT
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	0.2%	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	TIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	45	47.2	47.8	46.97
SAMPLE IMAGES	S	method	limit/base	current	history1	history2
Color						

