

PROBLEM SUMMARY

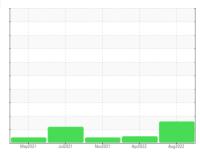
Sample Rating Trend

ISO

KAESER SM 10 6795059 (S/N 1122)

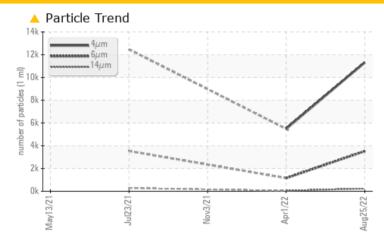
Compressor

KAESER SIGMA (OEM) M-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							
Sample Status			ABNORMAL	NORMAL	ABNORMAL		
Particles >6µm	ASTM D7647	>1300	<u> </u>	1156			
Particles >14μm	ASTM D7647	>80	236	49			
Particles >21µm	ASTM D7647	>20	△ 38	10			
Oil Cleanliness	ISO 4406 (c)	>/17/13	2 1/19/15	17/13			

Customer Id: HTHGAH Sample No.: KCP33382 Lab Number: 05633642 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

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

01 Apr 2022 Diag: Doug Bogart

NORMAL



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 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.



03 Nov 2021 Diag: Doug Bogart

VIS DEBRIS



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. 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. 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.

view report

23 Jul 2021 Diag: Don Baldridge

ISO



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.





OIL ANALYSIS REPORT

Sample Rating Trend



KAESER SM 10 6795059 (S/N 1122)

Compressor

KAESER SIGMA (OEM) M-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

All 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.

		May2021	Jul2021	Nov2021 Apr2022	Aug 2022	
SAMPLE INFORM	MATION	method	limit/base	current	history 1	history 2
Sample Number				KCP33382	KCP45242	KCP39466
Sample Date				25 Aug 2022	01 Apr 2022	03 Nov 2021
Machine Age	hrs			28272	24793	20994
Oil Age	hrs			3479	3799	2000
Oil Changed				Changed	Changed	Changed
Sample Status				ABNORMAL	NORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history 1	history 2
Iron	ppm	ASTM D5185m	>50	<1	<1	<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	0	0
Aluminum	ppm	ASTM D5185m	>10	<1	<1	0
Lead	ppm	ASTM D5185m	>10	<1	0	<1
Copper	ppm	ASTM D5185m	>50	9	7	4
Tin	ppm	ASTM D5185m	>10	<1	0	<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	ppm	ASTM D5185m	0	0	<1	0
Barium	ppm	ASTM D5185m	90	58	45	0
Molybdenum	ppm	ASTM D5185m	0	0	0	0
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m	100	51	64	13
Calcium	ppm	ASTM D5185m	0	3	3	0
Phosphorus	ppm	ASTM D5185m	0	3	9	<1
Zinc	ppm	ASTM D5185m	0	9	3	10
Sulfur	ppm	ASTM D5185m	23500	19890	17050	16516
CONTAMINANTS		method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185m	>25	<1	<1	0
Sodium	ppm	ASTM D5185m		19	25	3
Potassium	ppm	ASTM D5185m	>20	5	2	<1
Water	%	ASTM D6304	>0.05	0.014	0.014	0.013
ppm Water	ppm	ASTM D6304	>500	147.5	140.3	137.3
FLUID CLEANLIN	IESS	method	limit/base	current	history 1	history 2
Particles >4μm		ASTM D7647		11309	5484	
Particles >6µm		ASTM D7647	>1300	<u>▲</u> 3521	1156	
Particles >14μm		ASTM D7647	>80	236	49	
Particles >21µm		ASTM D7647	>20	▲ 38	10	
Particles >38μm		ASTM D7647	>4	3	0	
Particles >71µm		ASTM D7647	>3	1	0	
Oil Cleanliness		ISO 4406 (c)	>/17/13	<u>21/19/15</u>	17/13	
FLUID DEGRADA	TION	method	limit/base	current	history 1	history 2
Acid Number (AN)	ma K∩⊔/a	V61M D804E	1.0	0.30	0.30	0.303

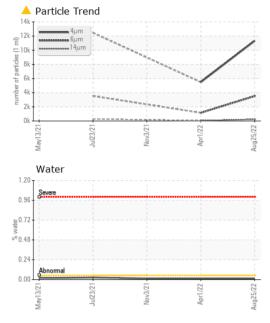
Acid Number (AN)

mg KOH/g ASTM D8045 1.0

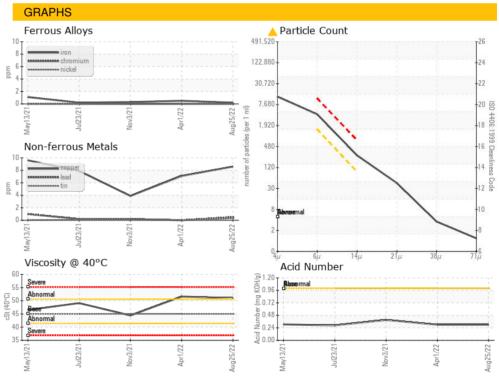
0.392



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	VLITE	▲ MODER
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	TES	method	limit/base	current	history 1	history 2
Visc @ 40°C	cSt	ASTM D445	45	51.0	51.6	44.4
SAMPLE IMAGES	3	method	limit/base	current	history 1	history 2
Color						
Bottom						







Laboratory Sample No. Lab Number

: 05633642 Unique Number : 10118163

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : KCP33382 Received Diagnosed

: 06 Sep 2022

: 02 Sep 2022

Diagnostician : Doug Bogart Test Package : IND 2 (Additional Tests: KF, PrtCount)

To discuss this sample report, contact Customer Service at 1-800-237-1369.

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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Contact: SERVICE MANAGER

T:

F: