

PROBLEM SUMMARY

Sample Rating Trend

WEAR

Machine Id

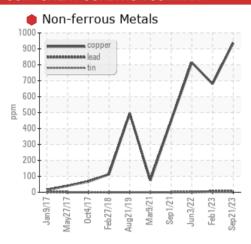
KAESER SM 10 4187007 (S/N 1102)

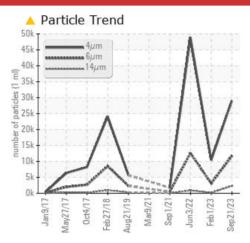
Component

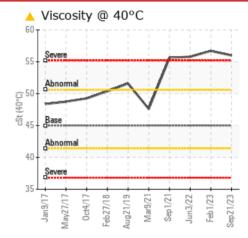
Compressor

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

COMPONENT CONDITION SUMMARY







RECOMMENDATION

The filter change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS											
Sample Status				SEVERE	SEVERE	SEVERE					
Copper	ppm	ASTM D5185m	>50	937	680	814					
Particles >6µm		ASTM D7647	>1300	<u> </u>	△ 3109	▲ 12605					
Particles >14µm		ASTM D7647	>80	2319	<u></u> 157	4 906					
Particles >21µm		ASTM D7647	>20	723	<u>^</u> 22	<u> </u>					
Particles >38µm		ASTM D7647	>4	<u>28</u>	1	<u> 5</u>					
Oil Cleanliness		ISO 4406 (c)	>/17/13	22/21/18	21/19/14	▲ 23/21/17					

Customer Id: PAUFRE Sample No.: KCPA006398 Lab Number: 06073948 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

Action Status Date Done By Description Inspect Wear Source --- ? We advise that you inspect for the source(s) of wear. Resample --- ? We recommend an early resample to monitor this condition.

HISTORICAL DIAGNOSIS

01 Feb 2023 Diag: Don Baldridge

WEAR



Oil and filter change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. The copper level is severe. Bearing and/or bushing wear is indicated. There is a high amount of particulates present in the oil. The oil viscosity is higher than normal. The AN level is acceptable for this fluid.



03 Jun 2022 Diag: Don Baldridge

WEAR



Oil and filter change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. The copper level is severe. Bearing and/or bushing wear is indicated. There is a high amount of particulates present in the oil. The oil viscosity is higher than normal. The AN level is acceptable for this fluid.

view report

01 Sep 2021 Diag: Don Baldridge

WEAR



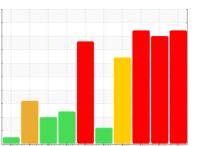
Oil and filter change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. The copper level is severe. Bearing and/or bushing wear is indicated. The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil. The oil viscosity is higher than normal. The AN level is acceptable for this fluid.





OIL ANALYSIS REPORT

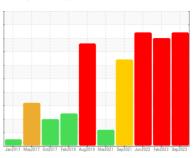
Sample Rating Trend



KAESER SM 10 4187007 (S/N 1102)

Compressor

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





DIAGNOSIS

Recommendation

The filter change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

The copper level is severe. Bearing and/or bushing wear is indicated.

Contamination

There is a high amount of particulates present in the oil.

▲ Fluid Condition

The oil viscosity is higher than normal. The AN level is acceptable for this fluid.

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KCPA006398	KCP55420	KCP51333
Sample Date		Client Info		21 Sep 2023	01 Feb 2023	03 Jun 2022
Machine Age	hrs	Client Info		86377	81529	76476
Oil Age	hrs	Client Info		0	3000	3000
Oil Changed		Client Info		N/A	Changed	Changed
Sample Status				SEVERE	SEVERE	SEVERE
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	0	<1	<1
Chromium	ppm	ASTM D5185m	>10	0	0	0
Nickel	ppm	ASTM D5185m	>3	0	<1	0
Titanium	ppm	ASTM D5185m	>3	0	0	0
Silver	ppm	ASTM D5185m	>2	0	<1	<1
Aluminum	ppm	ASTM D5185m	>10	0	<1	0
Lead	ppm	ASTM D5185m	>10	8	6	<1
Copper	ppm	ASTM D5185m	>50	937	680	814
Tin	ppm		>10	0	<1	<1
Antimony	ppm	ASTM D5185m				
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	0	0
Barium	ppm	ASTM D5185m	90	0	0	0
Molybdenum	ppm	ASTM D5185m	0	0	0	0
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m	100	0	2	1
Calcium	ppm	ASTM D5185m	0	0	0	0
Phosphorus	ppm	ASTM D5185m	0	0	10	11
Zinc	ppm	ASTM D5185m	0	87	238	338
Sulfur	ppm	ASTM D5185m	23500	11369	14824	12921
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<1	1	2
Sodium	ppm	ASTM D5185m		^	<1	1
				0	~ 1	
Potassium	ppm	ASTM D5185m	>20	0	0	0
Potassium Water	ppm %					0 0.002
Water		ASTM D5185m		0	0	
Water	% ppm	ASTM D5185m ASTM D6304	>0.05	0 0.007	0 0.007	0.002
Water ppm Water	% ppm	ASTM D5185m ASTM D6304 ASTM D6304	>0.05 >500	0 0.007 79	0 0.007 75.3	0.002 17.0
Water ppm Water FLUID CLEANLIN Particles >4μm	% ppm	ASTM D5185m ASTM D6304 ASTM D6304 method	>0.05 >500 limit/base	0 0.007 79 current	0 0.007 75.3 history1	0.002 17.0 history2
Water ppm Water FLUID CLEANLIN Particles >4μm Particles >6μm	% ppm	ASTM D5185m ASTM D6304 ASTM D6304 method ASTM D7647	>0.05 >500 limit/base	0 0.007 79 current 29023	0 0.007 75.3 history1 10409	0.002 17.0 history2 48892
Water ppm Water FLUID CLEANLIN	% ppm	ASTM D5185m ASTM D6304 ASTM D6304 method ASTM D7647 ASTM D7647	>0.05 >500 limit/base >1300 >80	0 0.007 79 current 29023 11681	0 0.007 75.3 history1 10409 ▲ 3109	0.002 17.0 history2 48892 \$\triangle\$ 12605
Water ppm Water FLUID CLEANLIN Particles >4 Particles >6 Particles >14 Particles >14	% ppm	ASTM D5185m ASTM D6304 ASTM D6304 method ASTM D7647 ASTM D7647 ASTM D7647	>0.05 >500 limit/base >1300 >80	0 0.007 79 current 29023 △ 11681 △ 2319	0 0.007 75.3 history1 10409 △ 3109 △ 157	0.002 17.0 history2 48892 \$\triangle\$ 12605 \$\triangle\$ 906
Water ppm Water FLUID CLEANLIN Particles >4 Particles >6 Particles >14 Particles >21 Particles >21	% ppm	ASTM D5185m ASTM D6304 ASTM D6304 method ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	>0.05 >500 limit/base >1300 >80 >20 >4	0 0.007 79 current 29023 △ 11681 △ 2319 △ 723	0 0.007 75.3 history1 10409 △ 3109 △ 157 △ 22	0.002 17.0 history2 48892 ▲ 12605 ▲ 906 ▲ 146
Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm Particles >21µm Particles >38µm	% ppm	ASTM D5185m ASTM D6304 ASTM D6304 method ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	>0.05 >500 limit/base >1300 >80 >20 >4	0 0.007 79 current 29023 △ 11681 △ 2319 △ 723 △ 28	0 0.007 75.3 history1 10409 △ 3109 △ 157 △ 22	0.002 17.0 history2 48892 \$\triangle\$ 12605 \$\triangle\$ 906 \$\triangle\$ 146 \$\triangle\$ 5



OIL ANALYSIS REPORT

