

PROBLEM SUMMARY

Sample Rating Trend

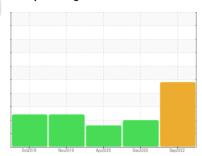
WATER

Built for a lifetime.

KAESER ASD 20 5808053 (S/N 1184)

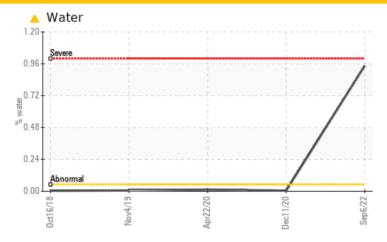
Compressor

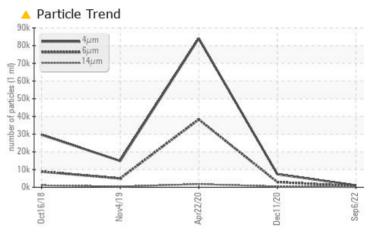
KAESER SIGMA (OEM) M-460 (--- GAL)





COMPONENT CONDITION SUMMARY





RECOMMENDATION

Oil and filter change at the time of sampling has been noted. 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	△ 0.945	0.005	0.013		
ppm Water	ppm	ASTM D6304	>500	9450	59.8	137.8		
Particles >14μm		ASTM D7647	>80	<u>^</u> 97	<u>451</u>	▲ 1767		
Particles >21μm		ASTM D7647	>20	33	<u> </u>	<u></u> 316		
Particles >38μm		ASTM D7647	>4	<u>^</u> 5	2	<u>▲</u> 11		
Oil Cleanliness		ISO 4406 (c)	>/17/13	17/16/14	<u> </u>	<u>22/18</u>		
Free Water	scalar	*Visual		1.0	NEG	NEG		

Customer Id: FMCMAL Sample No.: KCP02234 Lab Number: 05640366 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Jonathan Hester +1 919-379-4092 x4092 ihester@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

11 Dec 2020 Diag: Doug Bogart

WEAR



Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor. The copper level is abnormal. 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.



22 Apr 2020 Diag: Doug Bogart

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.

view report

04 Nov 2019 Diag: Jonathan Hester

WEAR



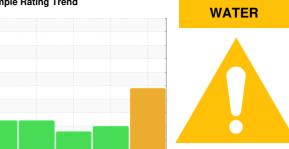
Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. The copper level is abnormal. There is a high amount of particulates present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.





OIL ANALYSIS REPORT

Sample Rating Trend



KAESER ASD 20 5808053 (S/N 1184)

Compressor

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

DIAGNOSIS

Recommendation

Oil and filter change at the time of sampling has been noted. We recommend an early resample in 500 hours to monitor this condition.

All component wear rates are normal.

Contamination

There is a moderate amount of particulates present in the oil. Free water present. There is a high concentration of water present in the oil.

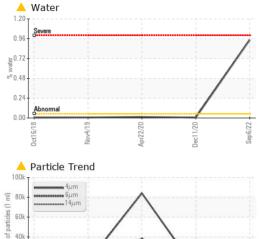
Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

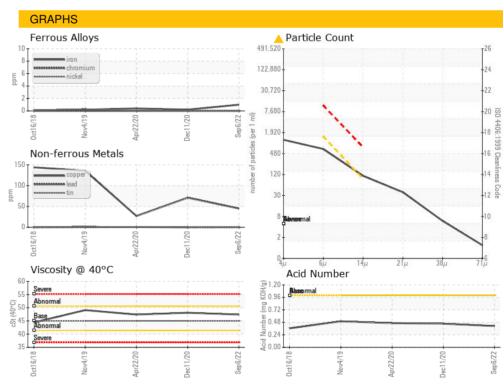
		Oct2018	Nov2019	Apr2020 Dec2020	Sep2022	
SAMPLE INFORM	MATION	method	limit/base	current	history 1	history 2
Sample Number				KCP02234	KCP34258	KCP26123
Sample Date				06 Sep 2022	11 Dec 2020	22 Apr 2020
Machine Age	hrs			16832	12692	10772
Oil Age	hrs			1419	3550	1630
Oil Changed				Changed	Changed	Not Changd
Sample Status				ABNORMAL	ABNORMAL	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	0
Titanium	ppm	ASTM D5185m	>3	0	0	0
Silver	ppm	ASTM D5185m	>2	<1	0	0
Aluminum	ppm	ASTM D5185m	>10	<1	0	1
Lead	ppm	ASTM D5185m	>10	<1	0	<1
Copper	ppm	ASTM D5185m	>50	45	<u> </u>	27
Tin	ppm	ASTM D5185m	>10	<1	0	<1
Antimony	ppm	ASTM D5185m			0	<1
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	0	0
Barium	ppm	ASTM D5185m	90	0	0	19
Molybdenum	ppm	ASTM D5185m	0	0	0	0
Manganese	ppm	ASTM D5185m		0	0	<1
Magnesium	ppm	ASTM D5185m	100	2	0	26
Calcium	ppm	ASTM D5185m	0	0	0	2
Phosphorus	ppm	ASTM D5185m	0	3	2	2
Zinc	ppm	ASTM D5185m	0	79	50	78
Sulfur	ppm	ASTM D5185m	23500	17140	15229	20494
CONTAMINANTS	3	method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185m	>25	<1	0	<1
Sodium	ppm	ASTM D5185m		0	0	4
Potassium	ppm	ASTM D5185m	>20	<1	0	1
Water	%	ASTM D6304		<u> </u>	0.005	0.013
ppm Water	ppm	ASTM D6304	>500	<u> </u>	59.8	137.8
FLUID CLEANLIN	IESS	method	limit/base	current	history 1	history 2
Particles >4µm		ASTM D7647		1046	7350	84084
Particles >6µm		ASTM D7647	>1300	570	2910	▲ 38278
Particles >14μm		ASTM D7647	>80	<u> </u>	<u>451</u>	<u> </u>
Particles >21μm		ASTM D7647	>20	4 33	<u>▲</u> 127	△ 316
Particles >38µm		ASTM D7647	>4	<u>^</u> 5	2	<u> 11</u>
Particles >71µm		ASTM D7647	>3	1	0	1
Oil Cleanliness		ISO 4406 (c)	>/17/13	<u> </u>	<u> </u>	<u>^</u> 22/18
FLUID DEGRADA	ATION	method	limit/base	current	history 1	history 2



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	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.05	0.2%	NEG	NEG
Free Water	scalar	*Visual		<u> </u>	NEG	NEG
FLUID PROPERTIES		method	limit/base	current	history 1	history 2
Visc @ 40°C	cSt	ASTM D445	45	47.4	48.1	47.4
SAMPLE IMAGES	SAMPLE IMAGES		limit/base	current	history 1	history 2
Color						
Bottom						







Laboratory Sample No. Lab Number Unique Number : 10129896

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : KCP02234 : 05640366

Received

Diagnosed

: 13 Sep 2022 : 15 Sep 2022

Diagnostician : Jonathan Hester

F & M CALLAHAN & SONS INC

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)

USA 02148 Contact: Service Manager

22 SHARON ST

MALDEN, MA

T:

F: