

PROBLEM SUMMARY

Sample Rating Trend

WATER

Machine Id

KAESER SM10 2920616 (S/N 1165)

Component

Compressor

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

COMPONENT CONDITION SUMMARY



RECOMMENDATION

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	ABNORMAL	NORMAL					
Water	%	ASTM D6304	>0.05	△ 0.369	△ 0.212	0.006					
ppm Water	ppm	ASTM D6304	>500	△ 3690	<u>^</u> 2120	66.1					
Emulsified Water	scalar	*Visual	>0.05	0.2%	△ 0.2%	NEG					
Free Water	scalar	*Visual		1.0	2.0	NEG					

Customer Id: HILWARPA Sample No.: KCPA007319 Lab Number: 05996300 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:

Don Baldridge +1 don.b505@comcast.net

To change component or sample information: Customer Service +1 1-800-237-1369 customerservice@wearcheck.com

RECOMMENDED ACTIONS

There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS

05 Oct 2022 Diag: Angela Borella

WATER



Oil and filter change at the time of sampling has been noted. There is too much water present in this sample to perform a particle count. We recommend an early resample in 500 hours to monitor this condition. All component wear rates are normal. There is a light concentration of water present in the oil. Free water present. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



13 Aug 2020 Diag: Don Baldridge

NORMAL



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.



18 Feb 2018 Diag: Doug Bogart

ISO



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





OIL ANALYSIS REPORT

Sample Rating Trend



WATER

KAESER SM10 2920616 (S/N 1165)

Compressor

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

DIAGNOSIS

Recommendation

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 light concentration of water present in the oil. Free water present.

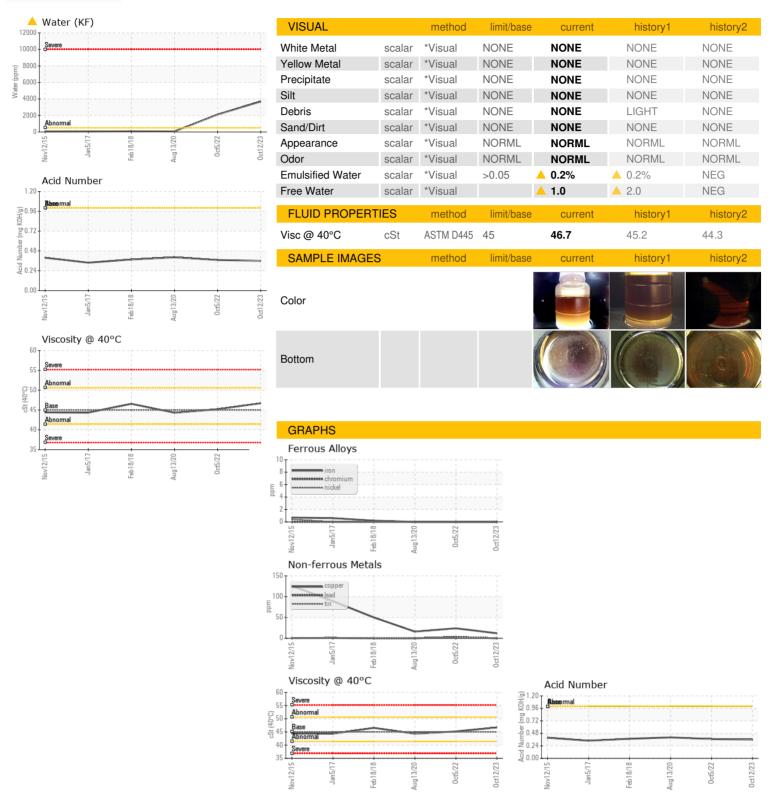
Fluid Condition

The AN level is acceptable for this fluid.

		Nov2015	Jan 2017 Feb 2018	Aug2020 Oct2022	Oct2023	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KCPA007319	KCP46708D	KC72952
Sample Date		Client Info		12 Oct 2023	05 Oct 2022	13 Aug 2020
Machine Age	hrs	Client Info		45870	43910	40256
Oil Age	hrs	Client Info		0	0	3139
Oil Changed		Client Info		N/A	Changed	Changed
Sample Status				ABNORMAL	ABNORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	0	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	0
Aluminum	ppm	ASTM D5185m	>10	0	0	0
Lead	ppm	ASTM D5185m	>10	0	3	0
Copper	ppm	ASTM D5185m	>50	12	24	16
Tin	ppm	ASTM D5185m	>10	<1	0	0
Antimony	ppm	ASTM D5185m				0
Vanadium	ppm	ASTM D5185m		<1	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	0	12
Barium	ppm	ASTM D5185m	90	<1	0	0
Molybdenum	ppm	ASTM D5185m	0	0	0	0
Manganese	ppm	ASTM D5185m		0	<1	0
Magnesium	ppm	ASTM D5185m	100	19	1	0
Calcium	ppm	ASTM D5185m	0	0	0	0
Phosphorus	ppm	ASTM D5185m	0	23	17	6
Zinc	ppm	ASTM D5185m	0	43	49	60
Sulfur	ppm	ASTM D5185m	23500	16166	21933	15604
CONTAMINANTS	}	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<1	1	<1
Sodium	ppm	ASTM D5185m		2	1	<1
Potassium	ppm	ASTM D5185m	>20	4	<1	0
Water	%	ASTM D6304	>0.05	△ 0.369	△ 0.212	0.006
ppm Water	ppm	ASTM D6304	>500	△ 3690	<u>^</u> 2120	66.1
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647				817
Particles >6µm		ASTM D7647	>1300			183
Particles >14µm		ASTM D7647	>80			13
Particles >21µm		ASTM D7647	>20			3
Particles >38µm		ASTM D7647	>4			0
Particles >71μm		ASTM D7647	>3			0
Oil Cleanliness		ISO 4406 (c)	>/17/13			15/11
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2



OIL ANALYSIS REPORT







Laboratory Sample No. Lab Number **Unique Number**

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : KCPA007319

: 05996300 : 10724660

Received Diagnosed

: 01 Nov 2023 : 03 Nov 2023

Diagnostician : Don Baldridge

Test Package : IND 2 (Additional Tests: KF, PrtCount) Certificate L2367 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.

HILLS CLEANERS 880 EASTON RD

WARRINGTON, PA US 18976

Contact: Service Manager hillscleaners.warrington@gmail.com

T: F:

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)