

PROBLEM SUMMARY

Sample Rating Trend

WATER

Machine Id

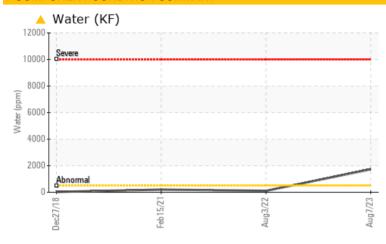
KAESER SM 10 5331231 (S/N 1051)

Component

Compressor

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

COMPONENT CONDITION SUMMARY



RECOMMENDATION

We were unable to perform a particle count on this sample. 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	ATTENTION	ABNORMAL			
Water	%	ASTM D6304	>0.05	△ 0.173	0.010	0.020			
ppm Water	ppm	ASTM D6304	>500	1730	109.7	202.1			
Emulsified Water	scalar	*Visual	>0.05	0.2%	NEG	NEG			

Customer Id: PENSED Sample No.: KCPA006310 Lab Number: 05961754 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

Action	Status	Date	Done By	Description
Alert			?	We were unable to perform a particle count due to a high concentration of particles present in this sample.

HISTORICAL DIAGNOSIS

03 Aug 2022 Diag: Jonathan Hester

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 moderate 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.



15 Feb 2021 Diag: Don Baldridge

VIS DEBRIS



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. 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.



27 Dec 2018 Diag: Angela Borella

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. All other 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 SM 10 5331231 (S/N 1051)

Compressor

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

DIAGNOSIS

Recommendation

We were unable to perform a particle count on this sample. 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

Fluid Condition

The AN level is acceptable for this fluid.

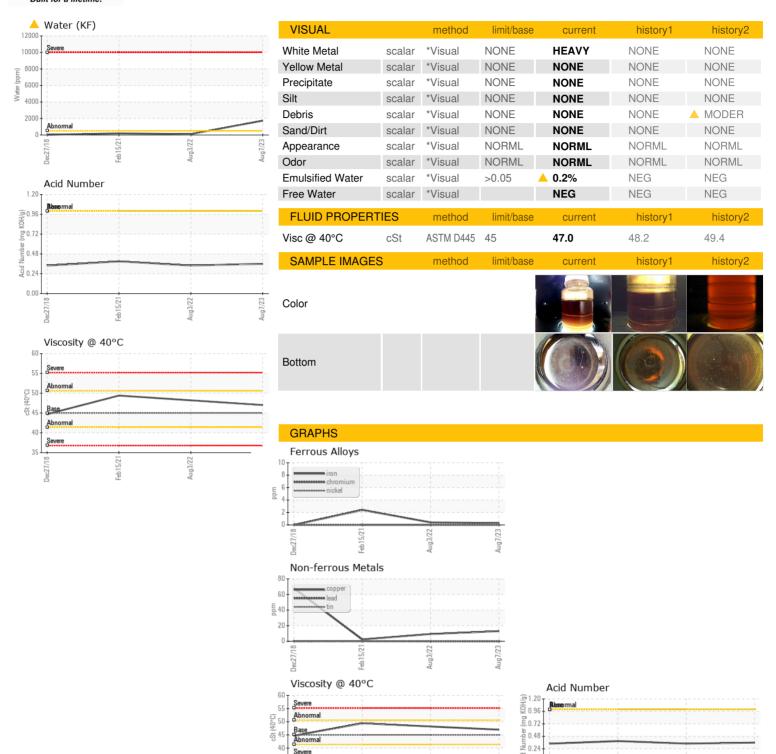
		Dec2018	Feb2021	Aug ² 022 Au	g2023	
SAMPLE INFORMA	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KCPA006310	KCP48249	KCP34173
Sample Date		Client Info		07 Aug 2023	03 Aug 2022	15 Feb 2021
Machine Age	hrs	Client Info		34184	30440	25206
Oil Age	hrs	Client Info		0	1814	3000
Oil Changed		Client Info		N/A	Changed	Changed
Sample Status				ABNORMAL	ATTENTION	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	<1	<1	2
Chromium	ppm	ASTM D5185m	>10	0	0	0
Nickel	ppm	ASTM D5185m	>3	0	0	0
Titanium	ppm	ASTM D5185m	>3	<1	0	0
Silver	ppm	ASTM D5185m	>2	0	0	<1
Aluminum	ppm	ASTM D5185m	>10	3	0	0
Lead	ppm	ASTM D5185m	>10	0	0	<1
Copper	ppm	ASTM D5185m	>50	13	9	2
Tin	ppm	ASTM D5185m	>10	<1	0	0
Antimony	ppm	ASTM D5185m				0
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	0	<1
Barium	ppm	ASTM D5185m	90	0	2	72
Molybdenum	ppm	ASTM D5185m	0	0	0	0
Manganese	ppm	ASTM D5185m		<1	<1	0
Magnesium	ppm	ASTM D5185m	100	9	16	84
Calcium	ppm	ASTM D5185m	0	2	0	<1
Phosphorus	ppm	ASTM D5185m	0	2	9	0
Zinc	ppm	ASTM D5185m	0	68	97	2
Sulfur	ppm	ASTM D5185m	23500	19555	23563	18632
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	1	<1	0
Sodium	ppm	ASTM D5185m		2	2	6
Potassium	ppm	ASTM D5185m	>20	2	1	1
	%	ASTM D6304	>0.05	<u> </u>	0.010	0.020
ppm Water	ppm	ASTM D6304	>500	<u> </u>	109.7	202.1
FLUID CLEANLINE	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647			5355	
Particles >6µm		ASTM D7647	>1300		<u>▲</u> 1715	
Particles >14µm		ASTM D7647	>80		<u>140</u>	
Particles >21μm		ASTM D7647	>20		△ 33	
Particles >38μm		ASTM D7647	>4		3	
Particles >71µm		ASTM D7647	>3		0	
Oil Cleanliness		ISO 4406 (c)	>/17/13		<u>^</u> 20/18/14	
FLUID DEGRADAT	ΓΙΟΝ	method	limit/base	current	history1	history2

0.34

0.390



OIL ANALYSIS REPORT







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

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : 05961754

: KCPA006310

Received Diagnosed : 10668305

: 26 Sep 2023 : 28 Sep 2023 Diagnostician : Don Baldridge

0.00 G

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)

PENSKE 19571 WHITFIELD RD

SEDALIA, MO US 65301

Contact: TIMOTHY BIRD timothy.bird@penske.com

T:

F:

Contact/Location: TIMOTHY BIRD - PENSED

Feb15/21