

# **PROBLEM SUMMARY**

Sample Rating Trend

**WATER** 

# KAESER SM 10 5349925 (S/N 1038)

Compressor

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

# **COMPONENT CONDITION SUMMARY**



# RECOMMENDATION

There is too much water present in this sample to perform a particle count. 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	ABNORMAL			
Water	%	ASTM D6304	>0.05	<b>△</b> 0.213	0.003	0.006			
ppm Water	ppm	ASTM D6304	>500	<u> </u>	34.0	66.4			
Emulsified Water	scalar	*Visual	>0.05	<b>0.2%</b>	NEG	NEG			
Free Water	scalar	*Visual		<b>1.0</b>	NEG	NEG			

Customer Id: KROFOR Sample No.: KCP48145 Lab Number: 05623892 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

# 07 Mar 2022 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 acceptable for the time in service.



## 15 Feb 2021 Diag: Angela Borella

150



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.



# 13 Jan 2020 Diag: Jonathan Hester

ISO



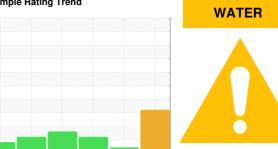
Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.All component wear rates are normal. There is a high amount of particulates present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.





# **OIL ANALYSIS REPORT**

Sample Rating Trend



# KAESER SM 10 5349925 (S/N 1038)

Compressor

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

# **DIAGNOSIS**

## Recommendation

There is too much water present in this sample to perform a particle count. 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.

All component wear rates are normal.

## Contamination

There is a light concentration of water present in the oil. Free water present.

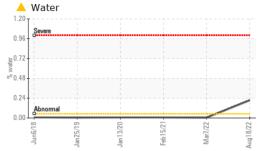
## **Fluid Condition**

The AN level is acceptable for this fluid.

SAMPLE INFORM	MATION	method	limit/base	current	history 1	history 2
Sample Number				KCP48145	KCP42581	KCP28341
Sample Date				18 Aug 2022	07 Mar 2022	15 Feb 2021
Machine Age	hrs			31926	29972	25401
Oil Age	hrs			1954	4000	4000
Oil Changed				Not Changd	Changed	Changed
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history 1	history 2
Iron	ppm	ASTM D5185m	>50	0	<1	0
Chromium	ppm	ASTM D5185m	>10	0	0	0
Nickel	ppm	ASTM D5185m	>3	0	0	<1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>2	0	<1	<1
Aluminum	ppm	ASTM D5185m		<1	0	0
Lead	ppm	ASTM D5185m	>10	0	0	<1
Copper	ppm	ASTM D5185m		11	18	22
Tin	ppm		>10	0	0	<1
Antimony	ppm	ASTM D5185m	- 10			0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
	ррпп			ŭ		-
ADDITIVES		method	limit/base	current	history 1	history 2
Boron	ppm	ASTM D5185m		0	2	10
Barium	ppm	ASTM D5185m	90	5	0	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m	90	21	0	3
Calcium	ppm	ASTM D5185m	2	0	<1	0
Phosphorus	ppm	ASTM D5185m		3	1	3
Zinc	ppm	ASTM D5185m		32	4	7
Sulfur	ppm	ASTM D5185m		17321	14322	16433
CONTAMINANTS	3	method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185m	>25	<1	2	<1
Sodium	ppm	ASTM D5185m		4	<1	2
Potassium	ppm	ASTM D5185m	>20	0	0	<1
Water	%	ASTM D6304	>0.05	<b>△</b> 0.213	0.003	0.006
ppm Water	ppm	ASTM D6304	>500	<u>^</u> 2130	34.0	66.4
FLUID CLEANLIN	IESS	method	limit/base	current	history 1	history 2
Particles >4µm		ASTM D7647				7032
Particles >6μm		ASTM D7647	>1300			△ 3159
Particles >14µm		ASTM D7647	>80			▲ 380
Particles >21µm		ASTM D7647	>20			<u></u> 101
Particles >38µm		ASTM D7647	>4			4
Particles >71µm		ASTM D7647	>3			0
Oil Cleanliness		ISO 4406 (c)	>/17/13			<b>△</b> 19/16
FLUID DEGRADA	ATION	method	limit/base	current	history 1	history 2
Acid Number (AN)	ma K∩⊔/a	VCTM DOUVE	0.4	0.27	0.21	0.247

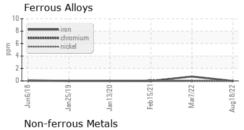


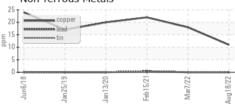
# **OIL ANALYSIS REPORT**

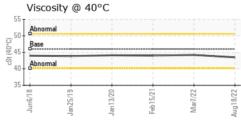


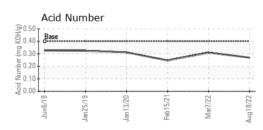
VISUAL		method	limit/base	current	history 1	history 2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	LIGHT	▲ MODER	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
<b>Emulsified Water</b>	scalar	*Visual	>0.05	<b>0.2%</b>	NEG	NEG
Free Water	scalar	*Visual		<u> </u>	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history 1	history 2
FLUID PROPERT Visc @ 40°C	cSt	method ASTM D445	limit/base 46	current 43.5	history 1 44.2	history 2 44.0
	cSt					
Visc @ 40°C	cSt	ASTM D445	46	43.5	44.2	44.0

# **GRAPHS**













Laboratory Sample No.

Lab Number Unique Number : 10103399

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : KCP48145 : 05623892

Received

: 22 Aug 2022 Diagnosed

: 24 Aug 2022 Diagnostician : Don Baldridge

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) **KROGER DISTRIBUTION** 

2000 ANVIL BLOCK RD FOREST PARK, GA USA 30297

Contact: Service Manager

T: F: