

PROBLEM SUMMARY

Sample Rating Trend



9028917 (S/N 1364)

Component

Compressor

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

COMPONENT CONDITION SUMMARY



RECOMMENDATION

The filter change at the time of sampling has been noted. We were unable to perform a particle count due to a high concentration of particles present in 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			
Water	%	ASTM D6304	>0.05	<u> </u>			
ppm Water	ppm	ASTM D6304	>500	5010			
Debris	scalar	*Visual	NONE	▲ MODER			
Appearance	scalar	*Visual	NORML	HAZY			
Free Water	scalar	*Visual		1.0			

Customer Id: TONBAR Sample No.: KCP28685 Lab Number: 05646570 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 jhester@wearcheckusa.com

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

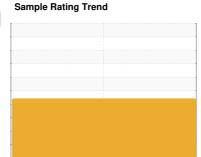
RECOMMENDED ACTIONS							
Action	Status	Date	Done By	Description			
Alert			?	We were unable to perform a particle count due to a high concentration of particles present in this sample.			

HISTORICAL DIAGNOSIS



OIL ANALYSIS REPORT

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WATER



Machine Id

9028917 (S/N 1364)

Component

Compressor

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

DIAGNOSIS

Recommendation

The filter change at the time of sampling has been noted. We were unable to perform a particle count due to a high concentration of particles present in 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.

Waar

All component wear rates are normal.

Contamination

Appearance is hazy. Free water present. There is a moderate concentration of water present in the oil. Moderate concentration of visible dirt/debris present in the oil.

Fluid Condition

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

				Aug2022		
SAMPLE INFORM	MATION	method	limit/base	current	history 1	history 2
Sample Number				KCP28685		
Sample Date				26 Aug 2022		
Machine Age	hrs			1474		
Oil Age	hrs			1474		
Oil Changed				Not Changd		
Sample Status				ABNORMAL		
WEAR METALS		method	limit/base	current	history 1	history 2
Iron	ppm	ASTM D5185m	>50	<1		
Chromium	ppm	ASTM D5185m	>10	0		
Nickel	ppm	ASTM D5185m	>3	0		
Titanium	ppm	ASTM D5185m	>3	0		
Silver	ppm	ASTM D5185m	>2	0		
Aluminum	ppm	ASTM D5185m	>10	<1		
Lead	ppm	ASTM D5185m	>10	0		
Copper	ppm	ASTM D5185m	>50	8		
Tin	ppm	ASTM D5185m	>10	<1		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history 1	history 2
Boron	ppm	ASTM D5185m	0	0		
Barium	ppm	ASTM D5185m	90	7		
Molybdenum	ppm	ASTM D5185m	0	0		
Manganese	ppm	ASTM D5185m		<1		
Magnesium	ppm	ASTM D5185m	100	38		
Calcium	ppm	ASTM D5185m	0	1		
Phosphorus	ppm	ASTM D5185m	0	3		
Zinc	ppm	ASTM D5185m	0	8		
Sulfur	ppm	ASTM D5185m	23500	20612		
CONTANTANT						
CONTAMINANTS	8	method	limit/base	current	history 1	history 2
	ppm	method ASTM D5185m	limit/base >25	current 3	history 1	history 2
Silicon						
Silicon Sodium	ppm	ASTM D5185m		3		
Silicon Sodium Potassium	ppm	ASTM D5185m ASTM D5185m	>25	3 4		
Silicon Sodium Potassium Water	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	>25 >20	3 4 0		
Silicon Sodium Potassium Water	ppm ppm ppm %	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D6304	>25 >20 >0.05	3 4 0 ▲ 0.501		
Silicon Sodium Potassium Water ppm Water	ppm ppm ppm %	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304	>25 >20 >0.05 >500	3 4 0 ▲ 0.501 ▲ 5010		



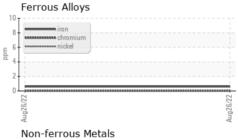
OIL ANALYSIS REPORT



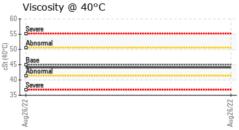
VISUAL		method	limit/base	current	history 1	history 2
White Metal	scalar	*Visual	NONE	NONE		
Yellow Metal	scalar	*Visual	NONE	NONE		
Precipitate	scalar	*Visual	NONE	NONE		
Silt	scalar	*Visual	NONE	NONE		
Debris	scalar	*Visual	NONE	▲ MODER		
Sand/Dirt	scalar	*Visual	NONE	NONE		
Appearance	scalar	*Visual	NORML	▲ HAZY		
Odor	scalar	*Visual	NORML	NORML		
Emulsified Water	scalar	*Visual	>0.05	0.2%		
Free Water	scalar	*Visual		<u> </u>		
FLUID PROPERT	IES	method	limit/base	current	history 1	history 2
Visc @ 40°C	cSt	ASTM D445	45	44.1		
SAMPLE IMAGES	3	method	limit/hase	current	history 1	history 2

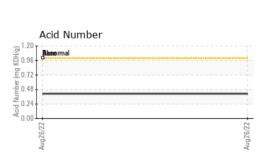
Color		no image	no image
Bottom		no image	no image
CDADUC			

GRAPHS



	Non-ferrous Metals	
	0 copper	
mdd	6 - management tin	
dd	4	
	0	_
	Aug26/22	
	Viscosity @ 400C	









Laboratory Sample No. Lab Number Unique Number : 10141109

: KCP28685 : 05646570

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

Received Diagnosed

: 20 Sep 2022 : 21 Sep 2022 Diagnostician : Jonathan Hester 50 CLEMENTS BRIDGE RD

BARRINGTON, NJ USA 08007

TONEWOOD BREWING

Contact: Service Manager

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)

T:

F: