

PROBLEM SUMMARY

Sample Rating Trend

WATER

KAESER AIRTOWER 5C 5927095 (S/N 1085)

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 R	ESULTS			
Sample Status				ABNORMAL	
Copper	ppm	ASTM D5185m	>50	<u>^</u> 72	
Water	%	ASTM D6304	>0.05	△ 0.150	
ppm Water	ppm	ASTM D6304	>500	1500	

Customer Id: HAMSOU Sample No.: KCP50026 Lab Number: 05638596 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



OIL ANALYSIS REP

Sample Rating Trend

WATER

KAESER AIRTOWER 5C 5927095 (S/N

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.

The copper level is abnormal. All other component wear rates are normal.

Contamination

There is a light concentration of water present in the oil. The amount and size of particulates present in the system are acceptable.

Fluid Condition

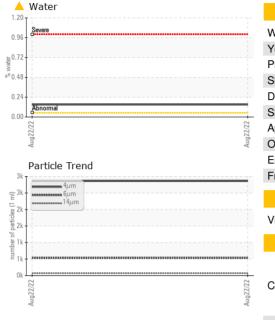
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

SIS REPORT	,	io riuting rrond			
0.0 0					
095 (S/N 1085)					
033 (0/11 1003)					
		Aug2022		,	
SAMPLE INFORMATION	method	limit/base	current	ł	nisto
Sample Number		кс	P50026		

SAMPLE INFORM	MATION	method	limit/base	current	history 1	history 2
Sample Number				KCP50026		
Sample Date				22 Aug 2022		
Machine Age	hrs			4738		
Oil Age	hrs			4738		
Oil Changed				Changed		
Sample Status				ABNORMAL		
WEAR METALS		method	limit/base	current	history 1	history 2
Iron	ppm	ASTM D5185m	>50	0		
Chromium	ppm	ASTM D5185m	>10	0		
Nickel	ppm	ASTM D5185m	>3	0		
Titanium	ppm	ASTM D5185m	>3	0		
Silver	ppm	ASTM D5185m	>2	<1		
Aluminum	ppm	ASTM D5185m	>10	1		
Lead	ppm	ASTM D5185m	>10	<1		
Copper	ppm	ASTM D5185m	>50	^ 72		
Tin	ppm	ASTM D5185m	>10	<1		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		<1		
ADDITIVES		method	limit/base	current	history 1	history 2
Boron	ppm	ASTM D5185m	0	0		
Barium	ppm	ASTM D5185m	90	0		
Molybdenum	ppm	ASTM D5185m	0	0		
Manganese	ppm	ASTM D5185m		0		
Magnesium	ppm	ASTM D5185m	100	<1		
Calcium	ppm	ASTM D5185m	0	0		
Phosphorus	ppm	ASTM D5185m	0	10		
Zinc	ppm	ASTM D5185m	0	0		
Sulfur	ppm	ASTM D5185m	23500	13690		
CONTAMINANTS	3	method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185m	>25	2		
Sodium	ppm	ASTM D5185m		0		
Potassium	ppm	ASTM D5185m	>20	<1		
Water	%	ASTM D6304	>0.05	<u> </u>		
ppm Water	ppm	ASTM D6304	>500	1500		
FLUID CLEANLIN	NESS	method	limit/base	current	history 1	history 2
Particles >4µm		ASTM D7647		2859		
Particles >6µm		ASTM D7647	>1300	531		
Particles >14μm		ASTM D7647	>80	68		
Particles >21μm		ASTM D7647	>20	13		
Particles >38µm		ASTM D7647	>4	1		
Particles >71µm		ASTM D7647	>3	0		
Oil Cleanliness		ISO 4406 (c)	>/17/13	19/16/13		
FLUID DEGRADA	NOITA	method	limit/base	current	history 1	history 2
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	0.36		



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	VLITE		
Sand/Dirt	scalar	*Visual	NONE	NONE		
Appearance	scalar	*Visual	NORML	NORML		
Odor	scalar	*Visual	NORML	NORML		
Emulsified Water	scalar	*Visual	>0.05	0.2%		
Free Water	scalar	*Visual		NEG		
FLUID PROPERT	IFS	method	limit/base	current	history 1	history 2
					otory	
Visc @ 40°C	cSt	ASTM D445	45	44.8		

SAMPLE IMAGES	method	limit/base	current	history 1	history 2
Color				no image	no image
Bottom				no image	no image
GRAPHS					

Ferrous Alloys	Particle Count	
Terrous Alloys	491,520 _T	
iron accessace chromium accessace nickel	122,880	
	30,720-	
2	7,680	
Aug22/22	8 (per 1 ml)	
Non-ferrous Metals	Aug22222 026' [per 1 m]	
copper	120-	
**************************************	30-	
	8 Sibresemal	
Aug22/22_	4ng2272	
Viscosity @ 40°C	4μ 6μ 14μ Acid Number	21μ 38μ 7
Severe	⊋1.20 Basemal	
T	1.20 Blassemal Blassemal 9.0.04 P.0.24 P.0.00 P.0.24 P.0.24 P.0.00 P.0.24 P.0.24 P.0.24 P.0.24 P.0.00 P.0.24 P.0.2	
Abnormal Base Abnormal	9 0.48	
Severe	Z 0.24	
Aug22/22	Aug22/22 -	





Laboratory Sample No. Lab Number Unique Number : 10128126

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : 05638596

: KCP50026

Received Diagnosed

: 12 Sep 2022 : 15 Sep 2022

Diagnostician : Jonathan Hester

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.

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

HAMILTON BEACH/PROCTOR SILEX INC

261 YADKIN RD SOUTHERN PINES, NC

USA 28387

Contact: SERVICE MANAGER

T:

F: