

PROBLEM SUMMARY

Sample Rating Trend



Machine Id

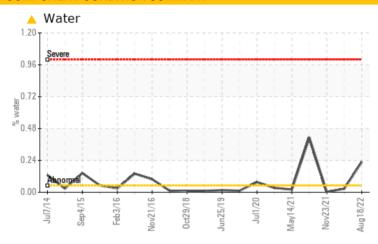
KAESER SK 15 4946533 (S/N 1564)

Component

Compressor

KAESER SIGMA (OEM) S-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	ATTENTION	NORMAL	
Water	%	ASTM D6304	>0.05	△ 0.228	0.027	0.003	
ppm Water	ppm	ASTM D6304	>500	2280	270.5	27.3	
Debris	scalar	*Visual	NONE	▲ MODER	NONE	NONE	

Customer Id: COPEAS Sample No.: KC05637685 Lab Number: 05637685 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

20 Apr 2022 Diag: Angela Borella





The 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.



23 Nov 2021 Diag: Angela Borella

NORMAL



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. The amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

17 Aug 2021 Diag: Jonathan Hester



We advise that you stop the unit and follow the water drain-off procedure for this component. The filter change at the time of sampling has been noted. We recommend an early resample in 500 hours to monitor this condition. 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. There is a moderate concentration of water present in the oil. 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.





OIL ANALYSIS REPORT

Sample Rating Trend



WATER

Machine Id

KAESER SK 15 4946533 (S/N 1564)

Component

Compressor

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

Fluid

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

There is a light concentration of water present in the oil. Moderate concentration of visible dirt/debris present in the oil.

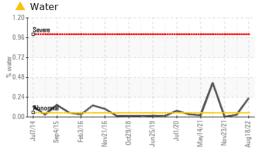
Fluid Condition

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

		Tul2014 Sep20	15 Feb 2016 Nov 2016 Oct2	018 Jun2019 Jul2020 May2021 No	v2021 Aug202	
SAMPLE INFORM	MATION	method	limit/base	current	history 1	history 2
Sample Number				KC05637685	KC05543237	KC05417200
Sample Date				18 Aug 2022	20 Apr 2022	23 Nov 2021
Machine Age	hrs			30061	28684	27136
Oil Age	hrs			0	1548	4232
Oil Changed				N/A	Not Changd	Changed
Sample Status				ABNORMAL	ATTENTION	NORMAL
WEAR METALS		method	limit/base	current	history 1	history 2
Iron	ppm	ASTM D5185m	>50	<1	<1	0
Chromium	ppm	ASTM D5185m	>10	0	0	0
Nickel	ppm	ASTM D5185m	>3	0	<1	0
Titanium	ppm	ASTM D5185m	>3	0	0	0
Silver	ppm	ASTM D5185m	>2	<1	<1	0
Aluminum	ppm	ASTM D5185m	>10	<1	<1	0
Lead	ppm	ASTM D5185m	>10	0	0	0
Copper	ppm	ASTM D5185m	>50	12	2	14
Tin	ppm	ASTM D5185m	>10	<1	0	0
Antimony	ppm	ASTM D5185m				0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history 1	history 2
Boron	ppm	ASTM D5185m		<1	<1	0
Barium	ppm	ASTM D5185m	90	38	25	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		<1	0	0
Magnesium	ppm	ASTM D5185m	90	41	83	3
Calcium	ppm	ASTM D5185m	2	0	<1	0
Phosphorus	ppm	ASTM D5185m		0	4	4
Zinc	ppm	ASTM D5185m		19	5	32
CONTAMINANTS	3	method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185m	>25	<1	<1	0
Sodium	ppm	ASTM D5185m		1	9	1
Potassium	ppm	ASTM D5185m	>20	0	0	0
Water	%	ASTM D6304	>0.05	△ 0.228	0.027	0.003
ppm Water	ppm	ASTM D6304	>500	2280	270.5	27.3
FLUID CLEANLIN	IESS	method	limit/base	current	history 1	history 2
Particles >4µm		ASTM D7647			5599	2193
Particles >6µm		ASTM D7647	>1300		<u>▲</u> 1560	677
Particles >14µm		ASTM D7647	>80		<u> </u>	59
Particles >21µm		ASTM D7647	>20		▲ 34	10
Particles >38µm		ASTM D7647	>4		2	0
Particles >71µm		ASTM D7647	>3		0	0
Oil Cleanliness		ISO 4406 (c)	>/17/13		2 0/18/14	17/13
FLUID DEGRADA	ATION	method	limit/base	current	history 1	history 2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.4	0.32	0.43	0.378

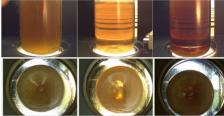


OIL ANALYSIS REPORT

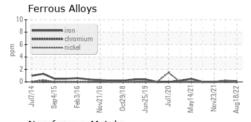


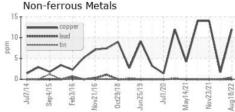
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VISUAL		method	limit/base	current	history 1	history 2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	MODER	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.05	0.2%	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history 1	history 2
Visc @ 40°C	cSt	ASTM D445	46	43.6	43.6	44.1
SAMPLE IMAGES	3	method	limit/base	current	history 1	history 2
Color						

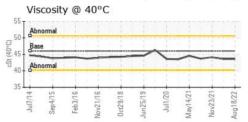


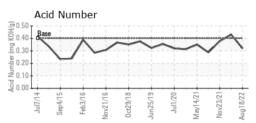


GRAPHS











Certificate L2367

Laboratory Sample No. Lab Number Unique Number : 10127215 Test Package : IND 2

: KC05637685 : 05637685

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

: 09 Sep 2022 : 12 Sep 2022 Diagnostician : Jonathan Hester

COPE CLOSETS 94 YAMARS DR EASTANOLLEE, GA

USA 30538 Contact:

T:

F:

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)