

PROBLEM SUMMARY

Sample Rating Trend



Machine Id

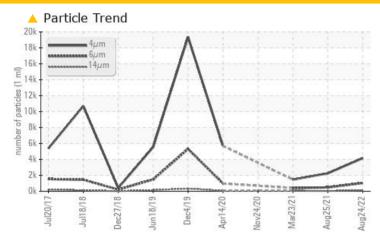
KAESER SM 15 5866173 (S/N 1506)

Component

Compressor

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

COMPONENT CONDITION SUMMARY



RECOMMENDATION

No corrective action is recommended at this time. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS							
Sample Status			ATTENTION	NORMAL	NORMAL		
Particles >14µm	ASTM D7647	>80	<u> </u>	30	57		
Particles >21µm	ASTM D7647	>20	4 35	10	22		
Oil Cleanliness	ISO 4406 (c)	>17/13	17/14	16/12	16/13		

Customer Id: HIGBEV Sample No.: KC103167 Lab Number: 05637135 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Doug Bogart +1 (800)237-1369 x4016 dougb@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

25 Aug 2021 Diag: Angela Borella

NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. 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.



23 Mar 2021 Diag: Don Baldridge

NORMAL



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. There is no indication of any contamination in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report

24 Nov 2020 Diag: Jonathan Hester

VIS DEBRIS



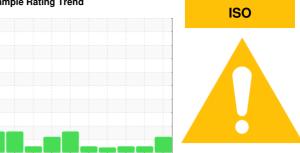
The filter change at the time of sampling has been noted. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample.All component wear rates are normal. Moderate concentration of visible dirt/debris present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.





OIL ANALYSIS REPORT

Sample Rating Trend



KAESER SM 15 5866173 (S/N 1506)

Compressor

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

DIAGNOSIS Recommendation

No corrective action is recommended at this time. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is a moderate amount of particulates present in the oil.

Fluid Condition

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

		Jul2017 Jul2	018 Dec2018 Jun2019 Dec2	019 Apr2020 Nov2020 Mar2021 Aug	021 Aug2022	
SAMPLE INFORM	1ATION	method	limit/base	current	history 1	history 2
Sample Number				KC103167	KC99705	KC90237
Sample Date				24 Aug 2022	25 Aug 2021	23 Mar 2021
Machine Age	hrs			32376	27205	24922
Oil Age	hrs			2078	2283	3962
Oil Changed				Changed	Changed	Changed
Sample Status				ATTENTION	NORMAL	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	0	0
Titanium	ppm	ASTM D5185m	>3	0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	<1
Aluminum	ppm	ASTM D5185m	>10	<1	<1	0
Lead	ppm	ASTM D5185m	>10	0	0	0
Copper	ppm	ASTM D5185m	>50	15	8	8
Tin	ppm	ASTM D5185m	>10	0	0	0
Antimony	ppm	ASTM D5185m			0	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		0	12	<1
Barium	ppm	ASTM D5185m	90	0	0	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m	90	18	17	1
Calcium	ppm	ASTM D5185m		0	0	0
Phosphorus	ppm	ASTM D5185m	_	4	1	<1
Zinc	ppm	ASTM D5185m		9	16	0
CONTAMINANTS		method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185m	>25	<1	<1	0
Sodium	ppm	ASTM D5185m	00	6	6	0
Potassium	ppm	ASTM D5185m	>20	0	0	0
Water	%	ASTM D6304	>0.05	0.013	0.013	0.006
ppm Water	ppm	ASTM D6304	>500	134.2	135.0	69.0
FLUID CLEANLIN	ESS	method	limit/base	current	history 1	history 2
Particles >4µm		ASTM D7647	1005	4158	2253	1465
Particles >6µm		ASTM D7647	>1300	1042	482	407
Particles >14µm		ASTM D7647	>80	<u>110</u>	30	57
Particles >21μm		ASTM D7647	>20	△ 35	10	22
Particles >38μm		ASTM D7647	>4	3	0	2
Particles >71μm		ASTM D7647		0	0	0
Oil Cleanliness		ISO 4406 (c)	>17/13	△ 17/14	16/12	16/13
FLUID DEGRADA	TION	method	limit/base	current	history 1	history 2
Acid Number (AN)	ma 1/011/a	ACTM DODAE	0.4	0.00	0.011	0.044

0.29

Acid Number (AN)

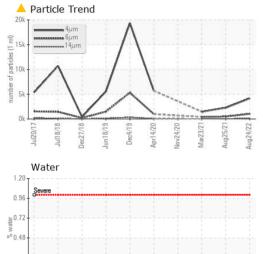
mg KOH/g ASTM D8045 0.4

0.311

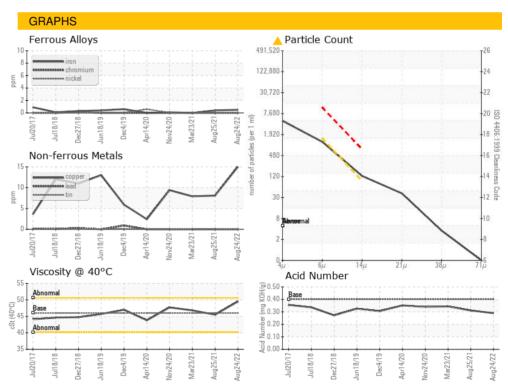
0.344



OIL ANALYSIS REPORT



VISUAL		method	limit/base	current	history 1	history 2
White Metal	scalar	*Visual	NONE	NONE	VLITE	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	NONE	NONE	VLITE
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	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPER	TIES	method	limit/base	current	history 1	history 2
Visc @ 40°C	cSt	ASTM D445	46	49.5	45.5	46.8
SAMPLE IMAGE	S	method	limit/base	current	history 1	history 2
Color						
Bottom						







Certificate L2367

Laboratory Sample No. Lab Number Test Package : IND 2

Unique Number : 10126665

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : 05637135

: KC103167

Received Diagnosed

: 09 Sep 2022

Diagnostician : Doug Bogart

: 08 Sep 2022

HIGHRES BIOSOLUTIONS 102 CHERRY HILL DR BEVERLY, MA

USA 01915 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)