

PROBLEM SUMMARY

Sample Rating Trend



Machine Id

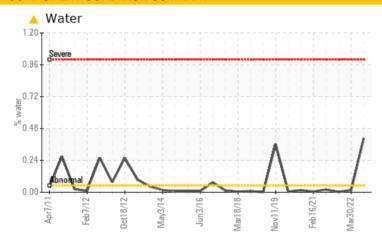
KAESER ASD 40 3871097 (S/N 1341)

Component

Compressor

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

COMPONENT CONDITION SUMMARY



RECOMMENDATION

We recommend you service the filters on this component. 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	ATTENTION		
Water	%	ASTM D6304	>0.05	△ 0.407	0.016	0.003		
ppm Water	ppm	ASTM D6304	>500	4070	165.8	31.5		
Debris	scalar	*Visual	NONE	▲ MODER	NONE	NONE		
Appearance	scalar	*Visual	NORML	▲ HAZY	NORML	NORML		
Free Water	scalar	*Visual		1.0	NEG	NEG		

Customer Id: ATIOAK Sample No.: KC91349 Lab Number: 05646578 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
Change Filter			?	We recommend you service the filters on this component.
Alert			?	We were unable to perform a particle count due to a high concentration of particles present in this sample.

HISTORICAL DIAGNOSIS

30 Mar 2022 Diag: Doug Bogart

ISO



No corrective action is recommended at this time. 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 silt (particulates < 14 microns in size) present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



23 Dec 2021 Diag: Angela Borella

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 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.

view report

17 Jun 2021 Diag: Angela Borella

NORMAL



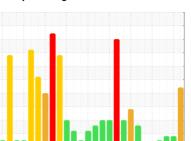
The filter change at the time of sampling has been noted. Resample at the next service interval to monitor.All component wear rates are normal. The amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for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





OIL ANALYSIS REPORT

Sample Rating Trend



WATER

A

Machine Id

KAESER ASD 40 3871097 (S/N 1341)

Component

Compressor

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

DIAGNOSIS

Recommendation

We recommend you service the filters on this component. 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.

		pr2011 Feb20	12 Oct2012 May2014 Ju	un2016 Mar2018 Nov2019 Feb202	1 Mar2022	
SAMPLE INFORM	MATION	method	limit/base	current	history 1	history 2
Sample Number				KC91349	KC91325	KC95285
Sample Date				13 Sep 2022	30 Mar 2022	23 Dec 2021
Machine Age	hrs			54988	52921	51597
Oil Age	hrs			3000	2000	4000
Oil Changed				Not Changd	Not Changd	Changed
Sample Status				ABNORMAL	ATTENTION	ATTENTION
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	<1	0
Aluminum	ppm	ASTM D5185m	>10	0	<1	0
Lead	ppm	ASTM D5185m	>10	0	0	0
Copper	ppm	ASTM D5185m	>50	14	3	13
Tin	ppm	ASTM D5185m	>10	<1	<1	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		0	0	0
Barium	ppm	ASTM D5185m	90	0	28	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		0	<1	0
Magnesium	ppm	ASTM D5185m	90	0	49	0
Calcium	ppm	ASTM D5185m	2	0	1	0
Phosphorus	ppm	ASTM D5185m		1	2	2
Zinc	ppm	ASTM D5185m		0	7	0
CONTAMINANTS		method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185m	>25	<1	<1	0
Sodium	ppm	ASTM D5185m		0	21	<1
Potassium	ppm	ASTM D5185m	>20	0	4	0
Water	%	ASTM D6304	>0.05	△ 0.407	0.016	0.003
ppm Water	ppm	ASTM D6304	>500	4070	165.8	31.5
FLUID CLEANLIN	IESS	method	limit/base	current	history 1	history 2
Particles >4µm		ASTM D7647			14491	6822
Particles >6µm		ASTM D7647	>1300		<u>^</u> 2254	<u> </u>
Particles >14µm		ASTM D7647	>80		4 93	<u> </u>
Particles >21µm		ASTM D7647			23	23
Particles >38µm		ASTM D7647	>4		2	1
Particles >71µm		ASTM D7647			0	0
Oil Cleanliness		ISO 4406 (c)	>/17/13		<u>▲</u> 18/14	<u>▲</u> 18/14
FLUID DEGRADATION method limit/base cu					history 1	history 2
					,	, -

Acid Number (AN)

mg KOH/g ASTM D8045 0.4

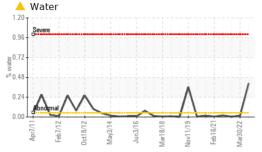
0.36

0.35

0.409



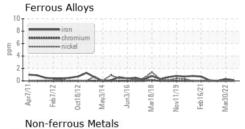
OIL ANALYSIS REPORT

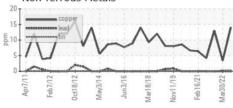


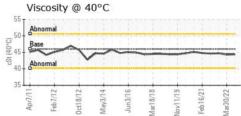
VISUAL		method	limit/base	current	history 1	history 2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	▲ MODER	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	▲ HAZY	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.05	0.2%	NEG	NEG
Free Water	scalar	*Visual		<u>▲</u> 1.0	NEG	NEG
FLUID PROPERT	TES	method	limit/base	current	history 1	history 2
Visc @ 40°C	cSt	ASTM D445	46	44.4	44.3	44.7
SAMPLE IMAGES		method	limit/base	current	history 1	history 2
Color						

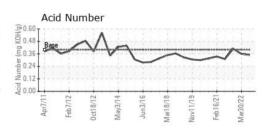
GRAPHS

Bottom













Certificate L2367

Laboratory Sample No. Lab Number

Unique Number : 10141117

: KC91349 : 05646578 Test Package : IND 2

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

: 20 Sep 2022 : 21 Sep 2022 Diagnostician : Jonathan Hester

ATI POWDER METALS 1001 ROBB HILL RD

OAKDALE, PA USA 15077

Contact: SERVICE MANAGER

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)

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