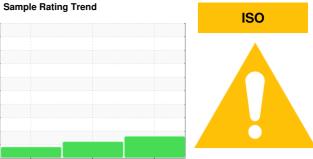


PROBLEM SUMMARY



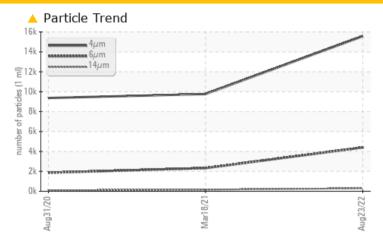
Machine Id **6777982 (S/N 1029)**

Component

Compressor

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

COMPONENT CONDITION SUMMARY



RECOMMENDATION

We recommend you service the filters on this component. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS							
Sample Status			ABNORMAL	ATTENTION	ATTENTION		
Particles >6µm	ASTM D7647	>1300	4397	▲ 2328	<u>▲</u> 1862		
Particles >14µm	ASTM D7647	>80	298	<u>▲</u> 161	<u>\$\times\$</u> 93		
Particles >21µm	ASTM D7647	>20	42	△ 38	27		
Oil Cleanliness	ISO 4406 (c)	>/17/13	21/19/15	△ 18/15	▲ 18/14		

Customer Id: ATLHOM Sample No.: KC107346 Lab Number: 05631685 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:

Don Baldridge +1 don.b505@comcast.net

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.

HISTORICAL DIAGNOSIS

18 Mar 2021 Diag: Angela Borella



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.



31 Aug 2020 Diag: Angela Borella



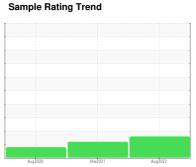


Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. There is a moderate amount of particulates present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further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





OIL ANALYSIS REPORT



ISO



Machine Id **6777982 (S/N 1029)**

Component

Compressor

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

DIAGNOSIS

Recommendation

We recommend you service the filters on this component. Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

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

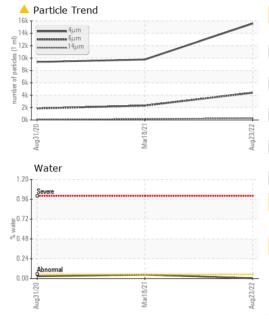
Fluid Condition

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

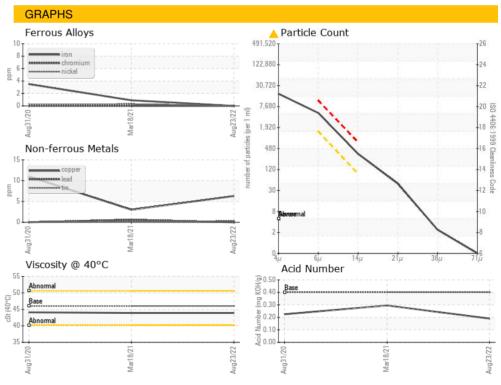
		Au	2020	Mar2021 Aug20	Augžozz		
SAMPLE INFORM	MATION	method	limit/base	current	history 1	history 2	
Sample Number				KC107346	KC89397	KC89398	
Sample Date				23 Aug 2022	18 Mar 2021	31 Aug 2020	
Machine Age	hrs			2374	3045	2551	
Oil Age	hrs			0	0	0	
Oil Changed				N/A	Changed	Changed	
Sample Status				ABNORMAL	ATTENTION	ATTENTION	
WEAR METALS		method	limit/base	current	history 1	history 2	
Iron	ppm	ASTM D5185m	>50	0	<1	4	
Chromium	ppm	ASTM D5185m	>10	0	0	0	
Nickel	ppm	ASTM D5185m	>3	0	<1	<1	
Titanium	ppm	ASTM D5185m	>3	0	0	0	
Silver	ppm	ASTM D5185m	>2	0	<1	0	
Aluminum	ppm	ASTM D5185m	>10	1	<1	0	
Lead	ppm	ASTM D5185m	>10	0	<1	0	
Copper	ppm	ASTM D5185m	>50	6	3	11	
Tin	ppm	ASTM D5185m	>10	<1	<1	0	
Antimony	ppm	ASTM D5185m			<1	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	<1	10	0	
Molybdenum	ppm	ASTM D5185m		0	<1	0	
Manganese	ppm	ASTM D5185m		0	<1	<1	
Magnesium	ppm	ASTM D5185m	90	<1	63	49	
Calcium	ppm	ASTM D5185m	2	0	1	2	
Phosphorus	ppm	ASTM D5185m		4	5	7	
Zinc	ppm	ASTM D5185m		<1	22	85	
CONTAMINANTS	,	method	limit/base	current	history 1	history 2	
Silicon	ppm	ASTM D5185m	>25	2	7	<1	
Sodium	ppm	ASTM D5185m		2	26	18	
Potassium	ppm	ASTM D5185m	>20	0	3	5	
Water	%	ASTM D6304	>0.05	0.004	0.047	0.028	
ppm Water	ppm	ASTM D6304	>500	49.5	477.4	280.8	
FLUID CLEANLIN	IESS	method	limit/base	current	history 1	history 2	
Particles >4µm		ASTM D7647		15570	9766	9369	
Particles >6µm		ASTM D7647	>1300	4397	<u>\$\text{2328}\$</u>	<u>▲</u> 1862	
Particles >14μm		ASTM D7647	>80	298	<u>▲</u> 161	9 3	
Particles >21μm		ASTM D7647	>20	42	▲ 38	27	
Particles >38μm		ASTM D7647	>4	2	0	4	
Particles >71µm		ASTM D7647	>3	0	0	0	
Oil Cleanliness		ISO 4406 (c)	>/17/13	<u>21/19/15</u>	△ 18/15	▲ 18/14	
FLUID DEGRADA	TION	method	limit/base	current	history 1	history 2	
Acid Number (AN)	mg KOH/g	ASTM D8045	0.4	0.19	0.295	0.225	



OIL ANALYSIS REPORT



VISUAL		method	limit/base	current	history 1	history 2
White Metal	scalar	*Visual	NONE	LIGHT	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	LIGHT	LIGHT	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	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	TES	method	limit/base	current	history 1	history 2
Visc @ 40°C	cSt	ASTM D445	46	43.9	43.9	44.1
SAMPLE IMAGES	3	method	limit/base	current	history 1	history 2
Color						
Bottom						







Certificate L2367

Laboratory Sample No. Lab Number Unique Number : 10116206 Test Package : IND 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : KC107346 : 05631685

Received Diagnosed

: 01 Sep 2022 : 02 Sep 2022 Diagnostician : Don Baldridge

ATLANTIC SAPPHIRE 22275 SW 272ND ST HOMESTEAD, FL USA 33064 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)

T:

F: