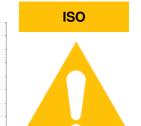


PROBLEM SUMMARY

Sample Rating Trend

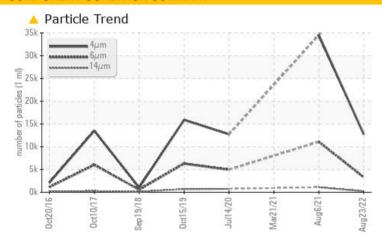


Machine Id KAESER SFC 45S 5497867 (S/N 1022)

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			ABNORMAL	ABNORMAL	ABNORMAL		
Particles >6µm	ASTM D7647	>1300	△ 3300	<u>11091</u>			
Particles >14μm	ASTM D7647	>80	<u> </u>	<u>1109</u>			
Particles >21µm	ASTM D7647	>20	42	<u>^</u> 219			
Oil Cleanliness	ISO 4406 (c)	>17/13	19/15	<u> </u>			

Customer Id: SMSEAS Sample No.: KC98764 Lab Number: 05629644 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 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

06 Aug 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 high 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.



21 Mar 2021 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.

view report

14 Jul 2020 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 high 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.



Report Id: SMSEAS [WUSCAR] 05629644 (Generated: 09/01/2022 14:06:16)

Contact/Location: ? ? - SMSEAS



OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

KAESER SFC 45S 5497867 (S/N 1022)

Component

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 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.

		Oct2016 (Oct2017 Sep2018 Oct20	19 Jul2020 Mar2021 Aug2021	Aug2022	
SAMPLE INFORM	MATION	method	limit/base	current	history 1	history 2
Sample Number				KC98764	KC93738	KC94061
Sample Date				23 Aug 2022	06 Aug 2021	21 Mar 2021
Machine Age	hrs			22301	17461	16311
Oil Age	hrs			6000	4000	3000
Oil Changed				Changed	Changed	Not Changd
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history 1	history 2
Iron	ppm	ASTM D5185m	>50	<1	<1	<1
Chromium	ppm	ASTM D5185m	>10	0	0	<1
Nickel	ppm	ASTM D5185m	>3	0	0	<1
Titanium	ppm	ASTM D5185m	>3	0	0	0
Silver	ppm	ASTM D5185m	>2	0	<1	0
Aluminum	ppm	ASTM D5185m	>10	<1	0	<1
Lead	ppm	ASTM D5185m	>10	0	<1	1
Copper	ppm	ASTM D5185m	>50	4	2	2
Tin	ppm	ASTM D5185m	>10	0	<1	0
Antimony	ppm	ASTM D5185m			0	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	<1
ADDITIVES		method	limit/base	current	history 1	history 2
Boron	ppm	ASTM D5185m		0	<1	<1
Barium	ppm	ASTM D5185m	90	<1	18	2
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	90	47	79	113
Calcium	ppm	ASTM D5185m	2	0	2	2
Phosphorus	ppm	ASTM D5185m		<1	2	3
Zinc	ppm	ASTM D5185m		8	0	23
CONTAMINANTS	;	method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185m	>25	0	<1	0
Sodium	ppm	ASTM D5185m		22	19	29
Potassium	ppm	ASTM D5185m	>20	1	4	0
Water	%	ASTM D6304	>0.05	0.042	0.040	0.024
ppm Water	ppm	ASTM D6304	>500	429.9	407.8	244.3
FLUID CLEANLIN	IESS	method	limit/base	current	history 1	history 2
Particles >4μm		ASTM D7647		12743	34533	
Particles >6µm		ASTM D7647	>1300	3300	<u>11091</u>	
Particles >14µm		ASTM D7647	>80	^ 216	<u></u> 1109	
Particles >21µm		ASTM D7647	>20	42	<u>^</u> 219	
Particles >38µm		ASTM D7647	>4	2	<u> </u>	
Particles >71µm		ASTM D7647	>3	0	0	
Oil Cleanliness		ISO 4406 (c)	>17/13	1 9/15	<u></u> 21/17	
FLUID DEGRADA	TION	method	limit/base	current	history 1	history 2
	1/011/	4.0TH D.O. 4.E.	0.4	0.20		

Acid Number (AN)

mg KOH/g ASTM D8045 0.4

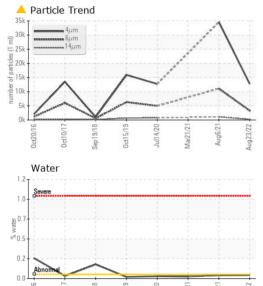
0.39

0.393

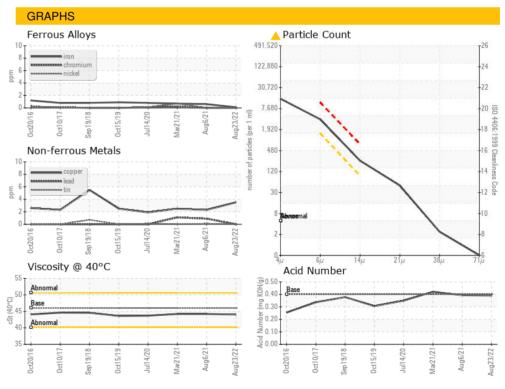
0.421



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	LIGHT	NONE	▲ MODER
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	44.0	44.2	44.2
SAMPLE IMAGES		method	limit/base	current	history 1	history 2
Color						
Bottom						





Certificate L2367

Laboratory Sample No. Lab Number

Unique Number : 10114165

: KC98764 : 05629644 Test Package : IND 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 29 Aug 2022 Diagnosed

: 31 Aug 2022 Diagnostician : Don Baldridge **SMS TECHNICAL SERVICES** 49560 STATE ROUTE 14

EAST PALESTINE, OH USA 44413

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)