

PROBLEM SUMMARY

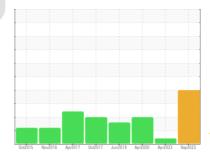
Sample Rating Trend

WATER

KAESER SK 20 5297023 (S/N 1554)

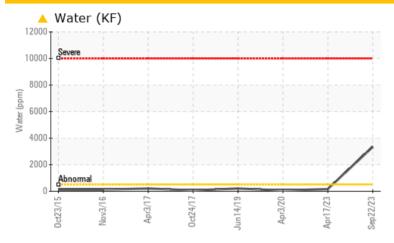
Compressor

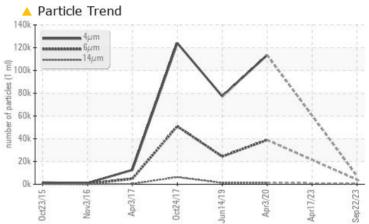
KAESER SIGMA (OEM) S-460 (--- GAL)





COMPONENT CONDITION SUMMARY





RECOMMENDATION

The filter change at the time of sampling has been noted. 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 T	EST RE	SULTS				
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
Water	%	ASTM D6304	>0.05	△ 0.334	0.016	0.006
ppm Water	ppm	ASTM D6304	>500	3340	168.7	62.4
Particles >6µm		ASTM D7647	>1300	4009		▲ 38933
Particles >14µm		ASTM D7647	>80	△ 682		<u> </u>
Particles >21µm		ASTM D7647	>20	^ 230		<u>^</u> 210
Particles >38µm		ASTM D7647	>4	△ 35		<u> </u>
Particles >71µm		ASTM D7647	>3	<u></u> 4		A 3
Oil Cleanliness		ISO 4406 (c)	>/17/13	20/19/17		<u>22/17</u>

Customer Id: WESBER Sample No.: KC108023 Lab Number: 05963589 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 ihester@wearcheckusa.com

To change component or sample information: Customer Service +1 1-800-237-1369 customerservice@wearcheck.com

RECOMMENDED ACTIONS

There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS

17 Apr 2023 Diag: Don Baldridge

VIS DEBRIS



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. 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.



03 Apr 2020 Diag: Jonathan Hester

ISO



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. 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.



14 Jun 2019 Diag: Jonathan Hester

150



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. 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.





OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

KAESER SK 20 5297023 (S/N 1554)

Component

Compressor

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

DIAGNOSIS

Recommendation

The filter change at the time of sampling has been noted. 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.

Wear

All component wear rates are normal.

Contamination

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

Fluid Condition

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

Sample Number Client Info KC108023 KC104942 KC78937 Sample Date Client Info 22 Sep 2023 17 Apr 2023 03 Apr 2024 Machine Age hrs Client Info 0 1986 5865 58574 29408 5865 Dil Age hrs Client Info 0 1986 5865 5865 Dil Changed Client Info N/A Not Changed Changed ABNORMAL ABNORMA	Oct2015 Nov2016 Apr2017 Oct2017 Jum2019 Apr2020 Apr2023 Sep2023						
Sample Date Client Info 22 Sep 2023 17 Apr 2023 03 Apr 2024	SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Machine Age hrs Client Info	Sample Number		Client Info		KC108023	KC104942	KC78937
Dil Age	Sample Date		Client Info		22 Sep 2023	17 Apr 2023	03 Apr 2020
Dil Changed Client Info N/A ABNORMAL ASTM D5185m >3 <1 0 0 0 0 0 0 0 0 0	Machine Age	hrs	Client Info		56330	52574	29408
Bample Status Method limit/base current history1 ABNORMAL VWEAR METALS method limit/base current history1 history1 ron ppm ASTM D5185m >50 <1	Oil Age	hrs	Client Info		0	1986	5865
WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >50 <1	Oil Changed		Client Info		N/A	Not Changd	Changed
Chromium	Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
Chromium ppm ASTM D5185m >10 0 0 0 Nickel ppm ASTM D5185m >3 <1 0 0 Silver ppm ASTM D5185m >3 <1 0 0 Aluminum ppm ASTM D5185m >3 <1 2 <1 Lead ppm ASTM D5185m >10 <1 2 <1 12 Lead ppm ASTM D5185m >10 0 0 0 0 Copper ppm ASTM D5185m >50 27 <1 12 Tin ppm ASTM D5185m >10 0 0 <1 Antimony ppm ASTM D5185m 0 0 0 0 <1 Vanadium ppm ASTM D5185m 0 0 0 0 0 Cadmium ppm ASTM D5185m 0 0 57 0 0 Bor	WEAR METALS		method	limit/base	current	history1	history2
Nickel	Iron	ppm	ASTM D5185m	>50	<1	<1	<1
Silver	Chromium	ppm	ASTM D5185m	>10	0	0	0
Silver	Nickel	ppm	ASTM D5185m	>3	<1	0	0
Aluminum	Titanium	ppm	ASTM D5185m	>3	<1	0	0
Lead ppm ASTM D5185m >10 0 0 0 Copper ppm ASTM D5185m >50 27 <1 12 Tin ppm ASTM D5185m >50 27 <1 12 Antimony ppm ASTM D5185m >10 0 0 <1 Vanadium ppm ASTM D5185m 0 0 0 0 Cademium ppm ASTM D5185m 0 0 0 0 Boron ppm ASTM D5185m 0 0 0 0 Boron ppm ASTM D5185m 90 0 57 0 Molybdenum ppm ASTM D5185m 90 0 57 0 Magnesium ppm ASTM D5185m 0 0 72 2 2 Calcium ppm ASTM D5185m 2 0 1 0 0 Phosphorus ppm ASTM D5185m 2	Silver	ppm	ASTM D5185m	>2	0	0	0
Lead ppm ASTM D5185m >10 0 0 0 Copper ppm ASTM D5185m >50 27 <1 12 Tin ppm ASTM D5185m >50 27 <1 12 Antimony ppm ASTM D5185m >10 0 0 <1 Vanadium ppm ASTM D5185m 0 0 0 0 Cademium ppm ASTM D5185m 0 0 0 0 Boron ppm ASTM D5185m 0 0 0 0 Boron ppm ASTM D5185m 90 0 57 0 Molybdenum ppm ASTM D5185m 90 0 57 0 Magnesium ppm ASTM D5185m 0 0 72 2 2 Calcium ppm ASTM D5185m 2 0 1 0 0 Phosphorus ppm ASTM D5185m 2	Aluminum	ppm	ASTM D5185m	>10	<1	2	<1
Copper ppm ASTM D5185m >50 27 <1 12 Tin ppm ASTM D5185m >10 0 0 <1	Lead	ppm	ASTM D5185m	>10	0	0	0
Tin	Copper		ASTM D5185m	>50	27	<1	12
Antimony	Tin						
Vanadium ppm ASTM D5185m 0 0 0 Cadmium ppm ASTM D5185m 0 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 0 0 0 0 Barium ppm ASTM D5185m 90 0 57 0 Molybdenum ppm ASTM D5185m 0 0 0 0 Manganese ppm ASTM D5185m < 1 <1 0 0 Magnesium ppm ASTM D5185m 2 0 1 0 Phosphorus ppm ASTM D5185m <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>							
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ADDITIVES							
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Calcium ppm ASTM D5185m 2 0 1 0 Phosphorus ppm ASTM D5185m <1 <1 <1 <1 Zinc ppm ASTM D5185m 0 0 6 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 <1	•			00			
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Sodium ppm ASTM D5185m <1 19 2							
Potassium ppm ASTM D5185m >20 0 3 <1 Water % ASTM D6304 >0.05 Δ 0.334 0.016 0.006 opm Water ppm ASTM D6304 >500 Δ 3340 168.7 62.4 FLUID CLEANLINESS method limit/base current history1 history1 Particles >4μm ASTM D7647 >1300 Δ 4009 Δ 38933 Particles >14μm ASTM D7647 >80 Δ 682 Δ 1281 Particles >21μm ASTM D7647 >20 Δ 230 Δ 210 Particles >38μm ASTM D7647 >3 Δ 4 Δ 15 Particles >71μm ASTM D7647 >3 Δ 4 Δ 3 Oil Cleanliness ISO 4406 (c) >/17/13 Δ 20/19/17 Δ 22/17		ppm		>25			
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FLUID DEGRADATION method limit/base current history1 history2	Particles >71µm		ASTM D7647	>3	<u>4</u>		A 3
·	Oil Cleanliness		ISO 4406 (c)	>/17/13	<u>^</u> 20/19/17		<u>22/17</u>
Acid Number (AN) mg KOH/g ASTM D8045 0.4 0.36 0.42 0.336	FLUID DEGRADA	TION	method	limit/base	current	history1	history2
	Acid Number (AN)	mg KOH/g	ASTM D8045	0.4	0.36	0.42	0.336



OIL ANALYSIS REPORT





Certificate L2367

Sample No. Lab Number **Unique Number** Test Package

: 05963589

: KC108023 : 10670140 : IND 2

: 28 Sep 2023 Received

: 04 Oct 2023 Diagnosed Diagnostician : Jonathan Hester

53 RIVER RD BERWICK, PA US 18603

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: