

PROBLEM SUMMARY

Sample Rating Trend

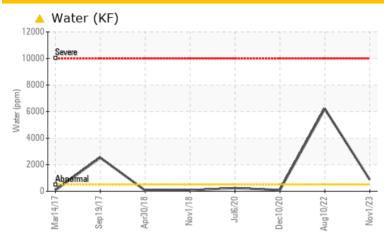
WATER

KAESER ASD 30 4695363 (S/N 1261)

Compressor

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

COMPONENT CONDITION SUMMARY



RECOMMENDATION

There is too much water present in this sample to perform a particle count. 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	SEVERE	NORMAL				
Water	%	ASTM D6304	>0.05	▲ 0.088	△ 0.621	0.009				
ppm Water	ppm	ASTM D6304	>500	<u>▲</u> 880	△ 6210	93.6				
Emulsified Water	scalar	*Visual	>0.05	0.2%	0.2%	NEG				

Customer Id: SXISTO Sample No.: KCPA009187 Lab Number: 06011510 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

There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS

10 Aug 2022 Diag: Jonathan Hester

WATER



Oil and filter change at the time of sampling has been noted. We recommend an early resample in 500 hours to monitor this condition. All component wear rates are normal. Appearance is hazy. There is a moderate amount of particulates present in the oil. Excessive free water present. There is a moderate concentration of water present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



10 Dec 2020 Diag: Jonathan Hester

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.



06 Jul 2020 Diag: Doug Bogart

NORMAL



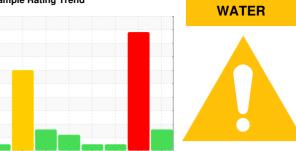
The filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.





OIL ANALYSIS REPORT

Sample Rating Trend



KAESER ASD 30 4695363 (S/N 1261)

Compressor

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

DIAGNOSIS

Recommendation

There is too much water present in this sample to perform a particle count. 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.

All component wear rates are normal.

Contamination

There is a moderate concentration of water present in the oil.

Fluid Condition

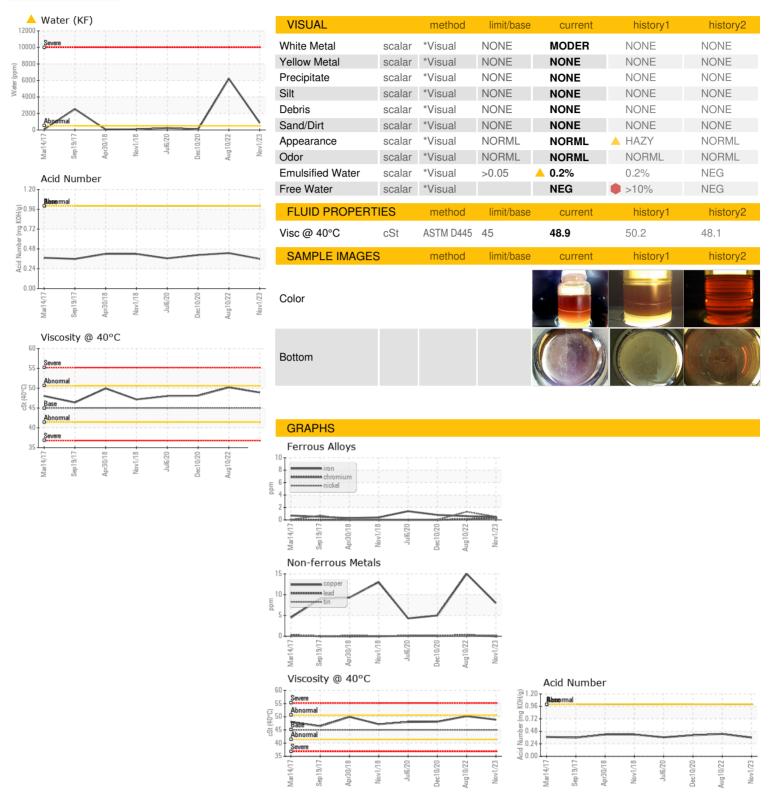
The AN level is acceptable for this fluid.

Sample Number Client Info KCPA009187 KCP27370			Mar2017 S	ep2017 Apr2018 Nov20	8 Jul2020 Dec2020 Aug2022	Nov2023		
Sample Date Client Info O1 Nov 2023 10 Aug 2022 10 Dec 2020	SAMPLE INFORM	MATION	method	limit/base	current	history1	history2	
Machine Age hrs Client Info 33155 31280 26464 Oil Age hrs Client Info 0 1774 3979 Oil Changed Client Info N/A Changed	Sample Number		Client Info		KCPA009187	KCP51612	KCP27370	
Oil Changed Oil Changed Client Info N/A Changed Chan	Sample Date		Client Info		01 Nov 2023	10 Aug 2022	10 Dec 2020	
Oil Changed Sample Status Client Info N/A ABNORMAL Changed SeVERE NORMAL WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >50 <1	Machine Age	hrs	Client Info		33155	31280	26464	
WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >50 <1	Oil Age	hrs	Client Info		0	1774	3979	
WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >50 <1	Oil Changed		Client Info		N/A	Changed	Changed	
Iron	Sample Status				ABNORMAL	SEVERE	NORMAL	
Chromium ppm ASTM D5185m >10 <1 <1 0 Nickel ppm ASTM D5185m >3 <1 1 0 Titanium ppm ASTM D5185m >3 <1 0 0 Silver ppm ASTM D5185m >20 0 <1 0 Aluminum ppm ASTM D5185m >10 <1 2 0 Lead ppm ASTM D5185m >10 0 <1 <1 <1 Copper ppm ASTM D5185m >10 0 <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 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1	WEAR METALS		method	limit/base	current	history1	history2	
Nickel ppm ASTM D5185m >3 <1 1 0 0 Titanium ppm ASTM D5185m >3 <1 0 0 Silver ppm ASTM D5185m >2 0 <1 0 Aluminum ppm ASTM D5185m >2 0 <1 0 Aluminum ppm ASTM D5185m >10 <1 2 0 Lead ppm ASTM D5185m >10 <1 2 0 Copper ppm ASTM D5185m >10 <1 <1 0 Copper ppm ASTM D5185m >10 <1 <1 0 Antimony ppm ASTM D5185m <10 <1 <1 0 Antimony ppm ASTM D5185m <10 <1 <1 0 ACadmium ppm ASTM D5185m <1 <1 <1 0 Cadmium ppm ASTM D5185m <1 <1 <1 0 ADDITIVES	Iron	ppm	ASTM D5185m	>50	<1	<1	<1	
Titanium ppm ASTM D5185m >3 <1 0 0 0	Chromium	ppm	ASTM D5185m	>10	<1	<1	0	
Silver	Nickel	ppm	ASTM D5185m	>3	<1	1	0	
Aluminum	Titanium	ppm	ASTM D5185m	>3	<1	0	0	
Lead ppm ASTM D5185m >10 0 <1 <1 Copper ppm ASTM D5185m >50 8 15 5 Tin ppm ASTM D5185m >10 <1 <1 0 Antimony ppm ASTM D5185m 0 Vanadium ppm ASTM D5185m <1 <1 0 Cadmium ppm ASTM D5185m <1 <1 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 0 0 <1 <1 Boron ppm ASTM D5185m 0 0 0 0 0 Barium ppm ASTM D5185m 0 0 0 0 0 Magnesium ppm ASTM D5185m 0 0 0 1 0 Calcium ppm ASTM D5185m 0 0 0 2<	Silver	ppm	ASTM D5185m	>2	0	<1	0	
Copper ppm ASTM D5185m >50 8 15 5 Tin ppm ASTM D5185m >10 <1	Aluminum	ppm	ASTM D5185m	>10	<1	2	0	
Copper ppm ASTM D5185m >50 8 15 5 Tin ppm ASTM D5185m >10 <1	Lead		ASTM D5185m	>10	0	<1	<1	
Tin ppm ASTM D5185m >10 <1 <1 0 Antimony ppm ASTM D5185m	Copper	ppm	ASTM D5185m	>50	8	15	5	
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Barium ppm ASTM D5185m 90 0 0 0 Molybdenum ppm ASTM D5185m 0 0 0 0 Manganese ppm ASTM D5185m 100 0 6 17 Calcium ppm ASTM D5185m 100 0 1 0 Phosphorus ppm ASTM D5185m 0 0 2 8 Zinc ppm ASTM D5185m 0 0 9 24 Sulfur ppm ASTM D5185m 23500 18918 19030 18449 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 <1	ADDITIVES		method	limit/base	current	history1	history2	
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Sulfur ppm ASTM D5185m 23500 18918 19030 18449 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 <1			ASTM D5185m	0	0	9	24	
Silicon ppm ASTM D5185m >25 <1 <1 2 Sodium ppm ASTM D5185m 2 1 2 Potassium ppm ASTM D5185m >20 <1 <1 1 Water % ASTM D6304 >0.05 ▲ 0.088 ▲ 0.621 0.009 ppm Water ppm ASTM D6304 >500 ▲ 880 ▲ 6210 93.6 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4µm ASTM D7647 >1300 1435 2102 Particles >6µm ASTM D7647 >80 ▲ 133 43 Particles >21µm ASTM D7647 >20 ▲ 45 17 Particles >38µm ASTM D7647 >4 ▲ 7 1 Particles >71µm ASTM D7647 >3 ▲ 18/17/14 16/13 Oil Cleanliness ISO 4406 (c) >/17/13 ▲ 18	Sulfur		ASTM D5185m	23500	18918	19030	18449	
Sodium ppm ASTM D5185m 2 1 2 Potassium ppm ASTM D5185m >20 <1	CONTAMINANTS		method	limit/base	current	history1	history2	
Sodium ppm ASTM D5185m 2 1 2 Potassium ppm ASTM D5185m >20 <1	Silicon	ppm	ASTM D5185m	>25	<1	<1	2	
Potassium ppm ASTM D5185m >20 <1 <1 1 Water % ASTM D6304 >0.05 ▲ 0.088 ▲ 0.621 0.009 ppm Water ppm ASTM D6304 >500 ▲ 880 ▲ 6210 93.6 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4μm ASTM D7647 1435 2102 Particles >6μm ASTM D7647 >1300 782 350 Particles >14μm ASTM D7647 >80 ▲ 133 43 Particles >21μm ASTM D7647 >20 ▲ 45 17 Particles >38μm ASTM D7647 >4 ▲ 7 1 Particles >71μm ASTM D7647 >3 1 0 Oil Cleanliness ISO 4406 (c) >/17/13 ▲ 18/17/14 16/13	Sodium		ASTM D5185m		2		2	
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Particles >4μm ASTM D7647 1435 2102 Particles >6μm ASTM D7647 >1300 782 350 Particles >14μm ASTM D7647 >80 Δ 133 43 Particles >21μm ASTM D7647 >20 Δ 45 17 Particles >38μm ASTM D7647 >4 Δ 7 1 Particles >71μm ASTM D7647 >3 1 0 Oil Cleanliness ISO 4406 (c) >/17/13 Δ 18/17/14 16/13								
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Oil Cleanliness ISO 4406 (c) >/17/13 ▲ 18/17/14 16/13								
FLUID DEGRADATION method limit/base current history1 history2								
	FLUID DEGRADA	TION	. ,	limit/base	<u>current</u>	history1	history2	

Acid Number (AN)



OIL ANALYSIS REPORT







Laboratory Sample No. Lab Number **Unique Number**

: KCPA009187 : 06011510 : 10750654

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

: 21 Nov 2023 Diagnostician : Don Baldridge

: 17 Nov 2023

Test Package : IND 2 (Additional Tests: KF, PrtCount) 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) **SX INVESTMENT GROUP**

1551 CENTRAL ST STOUGHTON, MA US 02072

Contact: TIM

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T:

F: Contact/Location: TIM ? - SXISTO