

PROBLEM SUMMARY

Sample Rating Trend

SEDIMENT

Machine Id

KAESER ASV40 4658950 (S/N 1014)

Component

Compressor

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

COMPONENT CONDITION SUMMARY

No relevant graphs to display

RECOMMENDATION

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.

PROBLEMATIC 1	EST RE	SULTS				
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
Silt	scalar	*Visual	NONE	▲ MODER	NONE	NONE

Customer Id: CBRCED Sample No.: KCPA000944 Lab Number: 05965402 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
Alert			?	We were unable to perform a particle count due to a high concentration of particles present in this sample.

HISTORICAL DIAGNOSIS

11 Mar 2022 Diag: Doug Bogart

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. There is a light amount of silt (particulates < 14 microns in size) present in the oil. There is a light 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.



09 Apr 2021 Diag: Jonathan Hester

VIS DEBRIS



Oil and 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.



29 Oct 2020 Diag: Jonathan Hester

SEDIMENT



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. There is a moderate amount of visible silt present in the sample. 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 ASV40 4658950 (S/N 1014)

Compressor

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

DIAGNOSIS

Recommendation

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.

Wear

All component wear rates are normal.

Contamination

There is a moderate amount of visible silt present in the sample.

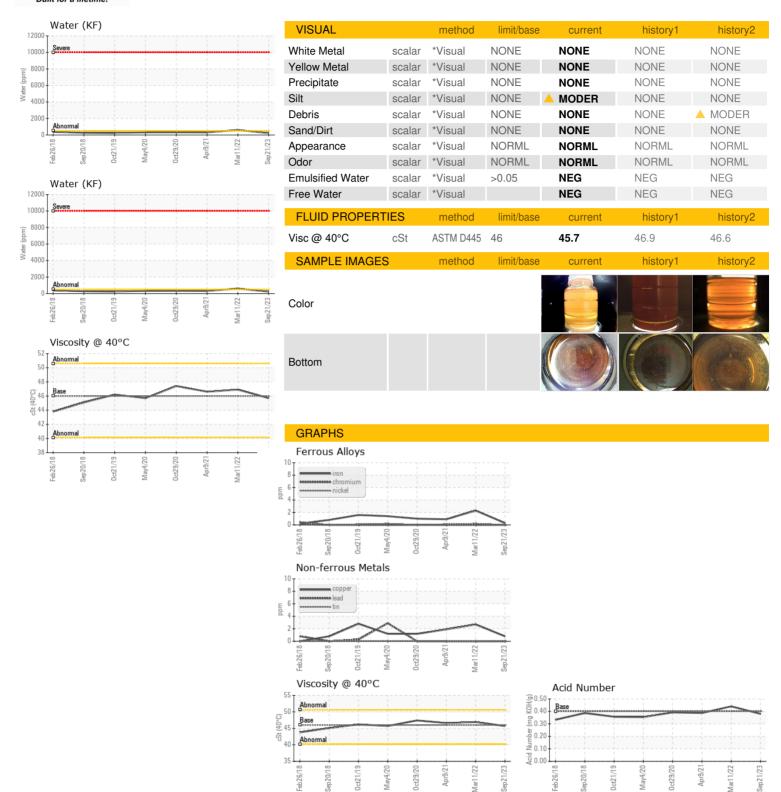
Fluid Condition

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

Sample Date Client Info 21 Sep 2023 11 Mar 2022 09 Apr 2021 Machine Age hrs Client Info 28964 18027 11833 Oil Age hrs Client Info 0 6194 4222 Oil Changed Client Info N/A Changed Changed Sample Status MBNORMAL ABNORMAL ABNORMAL ABNORMAL WEAR METALS method Imilibase current history1 history2 Iron ppm ASTM D5185m >50 <1 2 <1 Chromium ppm ASTM D5185m >10 0 0 0 Nickel ppm ASTM D5185m >3 0 <1 <1 <1 Alluminum ppm ASTM D5185m >3 0 <1 <1 <1 Lead ppm ASTM D5185m >10 0 0 0 Aphone ppm ASTM D5185m >10 0 0 0 <th></th> <th></th> <th>Feb 2018 S</th> <th>ep2018 Oct2019 May20</th> <th>20 Oct2020 Apr2021 Mar2022</th> <th>Sep2023</th> <th></th>			Feb 2018 S	ep2018 Oct2019 May20	20 Oct2020 Apr2021 Mar2022	Sep2023	
Sample Date Client Info 21 Sep 2023 11 Mar 2022 09 Apr 2021 Machine Age hrs Client Info 28964 18027 11833 Oil Age hrs Client Info 0 6194 4222 Oil Changed Client Info N/A Changed ABNORMAL ABNORMAL WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >50 <1	SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Machine Age Oil Age hrs Client Info 28964 18027 11833 Oil Age Oil Age hrs Client Info 0 6194 4222 Oil Changed Client Info N/A Changed Changed Sample Status method limit/base current history1 history2 Iron ppm ASTM D5185m >50 <1	Sample Number		Client Info		KCPA000944	KCP38179	KCP37220
Oil Age Oil Changed Oil Changed Sample Status Client Info N/A Changed Changed Changed Changed ABNORMAL ABNORMAL	Sample Date		Client Info		21 Sep 2023	11 Mar 2022	09 Apr 2021
Oil Changed Sample Status	Machine Age	hrs	Client Info		28964	18027	11833
WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >50 <1	Oil Age	hrs	Client Info		0	6194	4222
WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >50 <1 2 <1 Chromium ppm ASTM D5185m >3 0 0 0 Nickel ppm ASTM D5185m >3 0 0 0 Silver ppm ASTM D5185m >3 0 0 0 Aluminum ppm ASTM D5185m >10 5 <1 0 Lead ppm ASTM D5185m >10 0 0 0 Lead ppm ASTM D5185m >10 0 0 0 Copper ppm ASTM D5185m >10 0 0 0 Vanadium ppm ASTM D5185m 0 0 0 0 Vanadium ppm ASTM D5185m 0 0 0 0 Cadrium ppm ASTM D5185m 0 0 0 0 <th>Oil Changed</th> <th></th> <th>Client Info</th> <th></th> <th>N/A</th> <th>Changed</th> <th>Changed</th>	Oil Changed		Client Info		N/A	Changed	Changed
Irron	Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
Chromium ppm ASTM D5185m >10 0 0 0 Nickel ppm ASTM D5185m >3 0 <1 <1 Tittanium ppm ASTM D5185m >3 0 0 0 Silver ppm ASTM D5185m >2 0 <1 <1 Aluminum ppm ASTM D5185m >10 5 <1 0 Lead ppm ASTM D5185m >10 0 0 0 Lead ppm ASTM D5185m >10 0 0 0 Lead ppm ASTM D5185m >10 0 0 0 Antimony ppm ASTM D5185m 0 0 0 0 Vanadium ppm ASTM D5185m 0 0 0 0 Cadmium ppm ASTM D5185m 0 0 1 <1 Barium ppm ASTM D5185m 0 0 0 0	WEAR METALS		method	limit/base	current	history1	history2
Nickel	Iron	ppm	ASTM D5185m	>50	<1	2	<1
Titanium ppm ASTM D5185m >3 0 0 0 0 0 Silver ppm ASTM D5185m >2 0 <1 <1 Aluminum ppm ASTM D5185m >10 0 0 0 Copper ppm ASTM D5185m >10 0 0 0 Copper ppm ASTM D5185m >10 0 0 0 Antimony ppm ASTM D5185m >10 0 0 0 Antimony ppm ASTM D5185m >10 0 0 0 Antimony ppm ASTM D5185m 0 0 0 0 Cadmium ppm ASTM D5185m 0 0 0 0 Cadmium ppm ASTM D5185m 0 0 0 0 ADDITIVES	Chromium	ppm	ASTM D5185m	>10	0	0	0
Silver	Nickel	ppm	ASTM D5185m	>3	0	<1	<1
Aluminum	Titanium	ppm	ASTM D5185m	>3	0	0	0
Lead ppm ASTM D5185m >10 0 0 0 Copper ppm ASTM D5185m >50 <1 3 2 Tin ppm ASTM D5185m >50 <1 3 2 Tin ppm ASTM D5185m 0 0 0 0 Vanadium ppm ASTM D5185m 0 0 0 0 Cadmium ppm ASTM D5185m 0 0 0 0 Boron ppm ASTM D5185m 0 <1 <1 Bstory2 Boron ppm ASTM D5185m 0 <1 <1 1 Boron ppm ASTM D5185m 0 0 <1 2 Boron ppm ASTM D5185m 0 0 0 0 Molybdenum ppm ASTM D5185m 0 0 0 0 Magnesium ppm ASTM D5185m 0 0 0 0 <td>Silver</td> <td>ppm</td> <td>ASTM D5185m</td> <td>>2</td> <td>0</td> <td><1</td> <td><1</td>	Silver	ppm	ASTM D5185m	>2	0	<1	<1
Copper ppm ASTM D5185m >50 <1 3 2 Tin ppm ASTM D5185m >10 0 0 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 history1 history2 Boron ppm ASTM D5185m 0 <1	Aluminum	ppm	ASTM D5185m	>10	5	<1	0
Tin ppm ASTM D5185m >10 0 0 0 0 Antimony ppm ASTM D5185m 0 0 0 0 Cadmium ppm ASTM D5185m 0 0 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 0 0 0 0 Barium ppm ASTM D5185m 0 0 0 0 Barium ppm ASTM D5185m 0 0 0 0 0 Manganese ppm ASTM D5185m 0 0 0 0 0 Manganese ppm ASTM D5185m 0 0 0 0 0 Manganesium ppm ASTM D5185m 0 0 0 0 0 Manganesium ppm ASTM D5185m 0 0 0 0 0 0 Manganesium ppm ASTM D5185m 0 0 0 0 0 0 Magnesium ppm ASTM D5185m 0 0 0 0 0 0 Magnesium ppm ASTM D5185m 0 0 0 0 0 0 Magnesium ppm ASTM D5185m 0 0 121 104 Calcium ppm ASTM D5185m 0 0 12 2 2 Zinc ppm ASTM D5185m 0 0 12 2 2 Zinc ppm ASTM D5185m 0 0 12 2 2 Zinc ppm ASTM D5185m 0 0 1 10 0 Sulfur ppm ASTM D5185m 0 0 1 10 0 Sulfur ppm ASTM D5185m 0 0 1 10 0 Sulfur ppm ASTM D5185m 0 0 1 10 0 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4μm ASTM D647	Lead	ppm	ASTM D5185m	>10	0	0	0
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Boron ppm ASTM D5185m 90 85 121 102 Molybdenum ppm ASTM D5185m 90 0 0 0 Manganese ppm ASTM D5185m 90 90 121 104 Calcium ppm ASTM D5185m 90 90 121 104 Calcium ppm ASTM D5185m 90 90 121 104 Calcium ppm ASTM D5185m 0 12 2 Zinc ppm ASTM D5185m 0 10 12 2 Zinc ppm ASTM D5185m 0 16139 14209 14504 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m 7 21 11 Potassium ppm ASTM D5185m >20 0 <1 <1 Sodium ppm ASTM D5185m >20 0 12 11 Potassium ppm ASTM D5185m >20 0 1 <1 Sodium ppm ASTM D5185m >20 0 2 1 1 Water % ASTM D6304 >0.05 0.022 △ 0.061 0.031 ppm Water ppm ASTM D6304 >0.05 0.022 △ 0.061 0.031 ppm Water ppm ASTM D7647 -20 1	Cadmium		ASTM D5185m		0	0	0
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Zinc ppm ASTM D5185m 0 <1 0 Sulfur ppm ASTM D5185m 16139 14209 14504 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 0 <1	Phosphorus		ASTM D5185m		0	12	2
Sulfur ppm ASTM D5185m 16139 14209 14504 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 0 <1	Zinc		ASTM D5185m		0	<1	0
Silicon ppm ASTM D5185m >25 0 <1 <1 Sodium ppm ASTM D5185m 7 21 11 Potassium ppm ASTM D6304 >0.05 0.022 0.061 0.031 Water % ASTM D6304 >500 220.5 612.9 310.0 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4µm ASTM D7647 24916 Particles >6µm ASTM D7647 >80 69 Particles >14µm ASTM D7647 >80 69 Particles >21µm ASTM D7647 >4 0 Particles >38µm ASTM D7647 >4 0 Particles >71µm ASTM D7647 >3 0 Oil Cleanliness ISO 4406 (c) >17/13 18/13	Sulfur		ASTM D5185m		16139	14209	14504
Sodium ppm ASTM D5185m 7 21 11 Potassium ppm ASTM D5185m >20 0 2 1 Water % ASTM D6304 >0.05 0.022 △ 0.061 0.031 ppm Water ppm ASTM D6304 >500 220.5 △ 612.9 310.0 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4µm ASTM D7647 24916 Particles >6µm ASTM D7647 >1300 △ 2380 Particles >14µm ASTM D7647 >80 69 Particles >21µm ASTM D7647 >20 14 Particles >38µm ASTM D7647 >4 0 Particles >71µm ASTM D7647 >3 0 Oil Cleanliness ISO 4406 (c) >17/13 18/13	CONTAMINANTS		method	limit/base	current	history1	history2
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ppm Water ppm ASTM D6304 >500 220.5 ▲ 612.9 310.0 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4μm ASTM D7647 24916 Particles >6μm ASTM D7647 >1300 Δ 2380 Particles >14μm ASTM D7647 >80 69 Particles >21μm ASTM D7647 >20 14 Particles >38μm ASTM D7647 >4 0 Particles >71μm ASTM D7647 >3 0 Oil Cleanliness ISO 4406 (c) >17/13 18/13	Water		ASTM D6304	>0.05	0.022	△ 0.061	0.031
Particles >4μm ASTM D7647 24916 Particles >6μm ASTM D7647 >1300 Δ 2380 Particles >14μm ASTM D7647 >80 69 Particles >21μm ASTM D7647 >20 14 Particles >38μm ASTM D7647 >4 0 Particles >71μm ASTM D7647 >3 0 Oil Cleanliness ISO 4406 (c) >17/13 Δ 18/13	ppm Water	ppm	ASTM D6304	>500	220.5		310.0
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Particles >6μm ASTM D7647 >1300 Δ 2380 Particles >14μm ASTM D7647 >80 69 Particles >21μm ASTM D7647 >20 14 Particles >38μm ASTM D7647 >4 0 Particles >71μm ASTM D7647 >3 0 Oil Cleanliness ISO 4406 (c) >17/13 ▲ 18/13	Particles >4μm		ASTM D7647			24916	
Particles >21μm ASTM D7647 >20 14 Particles >38μm ASTM D7647 >4 0 Particles >71μm ASTM D7647 >3 0 Oil Cleanliness ISO 4406 (c) >17/13 ▲ 18/13	Particles >6µm		ASTM D7647	>1300		<u>^</u> 2380	
Particles >21μm ASTM D7647 >20 14 Particles >38μm ASTM D7647 >4 0 Particles >71μm ASTM D7647 >3 0 Oil Cleanliness ISO 4406 (c) >17/13 ▲ 18/13	Particles >14µm		ASTM D7647	>80		69	
Particles >38μm ASTM D7647 >4 0 Particles >71μm ASTM D7647 >3 0 Oil Cleanliness ISO 4406 (c) >17/13 ▲ 18/13	Particles >21µm			>20		14	
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Oil Cleanliness ISO 4406 (c) >17/13 ▲ 18/13				>3			
FLUID DEGRADATION method limit/base current history1 history2	Oil Cleanliness						
	FLUID DEGRADA	TION	method	limit/base	current	history1	history2



OIL ANALYSIS REPORT







Certificate L2367

Report Id: CBRCED [WUSCAR] 05965402 (Generated: 10/04/2023 09:24:33) Rev: 1

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

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : 05965402

: KCPA000944 : 10671953

Received Diagnosed

: 04 Oct 2023 Diagnostician : Jonathan Hester Test Package : IND 2 (Additional Tests: KF, PrtCount)

: 29 Sep 2023

CBRE GWS LLC 1834 SH 71 W CEDAR CREEK, TX US 78612

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: