

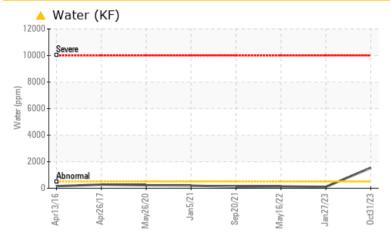
PROBLEM SUMMARY

KAESER SK 15 5262039 (S/N 1751)

Compressor

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

COMPONENT CONDITION SUMMARY



RECOMMENDATION

The filter change at the time of sampling has been noted. We were unable to perform a particle count due to a high concentration of particles present in this sample. 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	ABNORMAL	ATTENTION	
Water	%	ASTM D6304	>0.05	A 0.154	0.010	0.014	
ppm Water	ppm	ASTM D6304	>500	A 1540	107.0	141.6	
Silt	scalar	*Visual	NONE	A MODER	NONE	NONE	
Debris	scalar	*Visual	NONE	🔺 MODER	🔺 MODER	LIGHT	
Emulsified Water	scalar	*Visual	>0.05	6.2%	NEG	NEG	

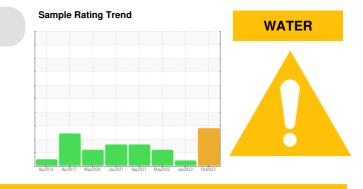
Customer Id: PWSCHA Sample No.: KCPA006462 Lab Number: 05999860 Test Package: IND 2



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 A	RECOMMENDED ACTIONS							
Action	Status	Date	Done By					
Alert			?					

Description

We were unable to perform a particle count due to a high concentration of particles present in this sample.

HISTORICAL DIAGNOSIS



27 Jan 2023 Diag: Doug Bogart

We recommend you service the filters on this component. 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

16 May 2022 Diag: Don Baldridge

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.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.

ISO

20 Sep 2021 Diag: Doug Bogart

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

Machine Id KAESER SK 15 5262039 (S/N 1751) Component

Compressor

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

DIAGNOSIS

Recommendation

The filter change at the time of sampling has been noted. We were unable to perform a particle count due to a high concentration of particles present in this sample. 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

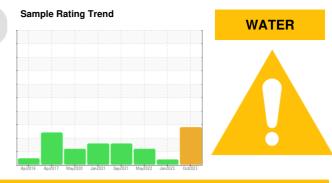
All component wear rates are normal.

Contamination

There is a moderate amount of visible silt present in the sample. Moderate concentration of visible dirt/debris 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.



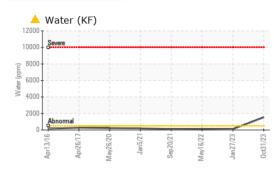
Machine Age hrs Client Info S2653 31765 27469 Oil Ago hrs Client Info NA A296 4000 Oil Changed Client Info NA NNA NNA NNA NNA Sample Status Client Info Na ABNORMAL ABNORMAL ATTENTION WEAR METALS method Imit/base current history1 <1 <1 Iron ppm ASTM 05185m >50 0 <1 <1 <1 Iranium ppm ASTM 05185m >30 0 0 0 <1 <1 Iranium ppm ASTM 05185m >10 0 </th <th>SAMPLE INFORM</th> <th>ATION</th> <th>method</th> <th>limit/base</th> <th>current</th> <th>history1</th> <th>history2</th>	SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Machine Age hrs Client Info S2653 31765 27469 Oil Ago hrs Client Info NA A296 4000 Oil Changed Client Info NA NNA NNA NNA NNA Sample Status Client Info Na ABNORMAL ABNORMAL ATTENTION WEAR METALS method Imit/base current history1 <1 <1 Iron ppm ASTM 05185m >50 0 <1 <1 <1 Iranium ppm ASTM 05185m >30 0 0 0 <1 <1 Iranium ppm ASTM 05185m >10 0 </th <th>Sample Number</th> <th></th> <th>Client Info</th> <th></th> <th>KCPA006462</th> <th>KCP55802</th> <th>KCP51491</th>	Sample Number		Client Info		KCPA006462	KCP55802	KCP51491
Machine Age hrs Client Info S2653 31765 27469 Oil Ago hrs Client Info NA A296 4000 Oil Changed Client Info NA NNA NNA NNA NNA Sample Status Client Info Na ABNORMAL ABNORMAL ATTENTION WEAR METALS method Imit/base current history1 <1 <1 Iron ppm ASTM 05185m >50 0 <1 <1 <1 Iranium ppm ASTM 05185m >30 0 0 0 <1 <1 Iranium ppm ASTM 05185m >10 0 </th <th>Sample Date</th> <th></th> <th>Client Info</th> <th></th> <th>31 Oct 2023</th> <th>27 Jan 2023</th> <th>16 May 2022</th>	Sample Date		Client Info		31 Oct 2023	27 Jan 2023	16 May 2022
Oil Changed Sample Status Client Info N/A ABNORMAL ATTENTION WEAR METALS method limit/base current history1 history1 history1 history2 Iron ppm ASTM D5155m >3 0 0 0 Nickel ppm ASTM D5155m >3 0	Machine Age	hrs	Client Info		32653	31765	
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WEAR METALS method limit/base current history1 history2 Iron ppm ASTM 05185n >50 0 <1 <1 Chromium ppm ASTM 05185n >3 0 0 0 Nickel ppm ASTM 05185n >3 0 0 0 Silver ppm ASTM 05185n >2 0 0 <1 Aluminum ppm ASTM 05185n >10 0 0 <1 Lead ppm ASTM 05185n >10 0 0 0 0 Copper ppm ASTM 05185n >10 0 0 0 0 Astm 05185n >10 0 0 0 0 0 0 Astm 05185n 0 0 0 0 0 0 0 Astm 05185n 0 0 0 0 0 0 0 Astm 05185n 0 0 <	Oil Changed		Client Info		N/A	N/A	Not Changd
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Chromium ppm ASTM D5165m >10 0 0 0 Nickel ppm ASTM D5165m >3 0 0 0 Titanium ppm ASTM D5165m >2 0 0 <1 Aluminum ppm ASTM D5165m >10 0 0 <1 Lead ppm ASTM D5165m >10 0 0 0 Antimony ppm ASTM D5165m >10 0 0 0 Antimony ppm ASTM D5165m >10 0 0 0 0 Antimony ppm ASTM D5165m 0 0 0 0 0 Antimony ppm ASTM D5165m 0 0 0 0 0 Antimony ppm ASTM D5165m 0 0 0 0 0 Antimony ppm ASTM D5165m 0 0 0 0 0 Antimony ppm	WEAR METALS		method	limit/base	current	history1	history2
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Imanue ppm ASTM D5185m >3 0 0 0 Silver ppm ASTM D5185m >2 0 0 <1	Chromium	ppm	ASTM D5185m	>10	0	0	0
Silver ppm ASTM D5185m >2 0 <1 Aluminum ppm ASTM D5185m >10 0 0 <1	Nickel	ppm	ASTM D5185m	>3	0	0	0
Aluminum ppm ASTM D5185m >10 0 0 <1 Lead ppm ASTM D5185m >10 0 0 0 Copper ppm ASTM D5185m >50 4 200 7 Tin ppm ASTM D5185m >10 0 0 0 Antimony ppm ASTM D5185m >10 0 0 0 Vanadium 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 90 0 2 0 Maganese ppm ASTM D5185m 90 35 6 15 Calcium ppm ASTM D5185m 2 2 0 0 Phosphorus ppm ASTM D5185m 22 0 0	Titanium	ppm	ASTM D5185m	>3	0	0	0
Lead ppm ASTM D5185m >10 0 0 0 Copper ppm ASTM D5185m >50 4 20 7 Tin 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 0 0 Boron ppm ASTM D5185m 0 0 0 0 Molybdenum ppm ASTM D5185m 0 0 0 0 Maganese ppm ASTM D5185m 0 0 0 0 Maganese ppm ASTM D5185m 2 2 0 0 Phosphorus ppm ASTM D5185m 2 2 44 23 Sulfur ppm ASTM D5185m 22 0 0 0	Silver	ppm	ASTM D5185m	>2	0	0	<1
Copper ppm ASTM D5185m >50 4 20 7 Tin 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 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 90 0 0 0 Malybdenum ppm ASTM D5185m 90 35 6 15 Calcium ppm ASTM D5185m 90 35 6 15 Calcium ppm ASTM D5185m 22 0 0 0 Phosphorus ppm ASTM D5185m 3 2 9 21 Sulfur ppm ASTM D5185m 25 0 2 <td< td=""><td>Aluminum</td><td>ppm</td><td>ASTM D5185m</td><td>>10</td><th>0</th><td>0</td><td><1</td></td<>	Aluminum	ppm	ASTM D5185m	>10	0	0	<1
Tin ppm ASTM D5185m >10 0 0 0 Antimony ppm ASTM D5185m Vanadium 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 Barium ppm ASTM D5185m 90 0 0 0 0 0 Magnesium ppm ASTM D5185m 90 35 6 15 0 Calcium ppm ASTM D5185m 2 2 0 0 0 Magnesium ppm ASTM D5185m 2 2 0 0 0 Sulfur ppm ASTM D5185m 2 0 2 1 Sulfur ppm ASTM D5185m >25 0 2 1 5 Sodiu	Lead	ppm	ASTM D5185m	>10	0	0	0
Tin ppm ASTM D5185m >10 0 0 0 Antimony ppm ASTM D5185m Vanadium 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 Barium ppm ASTM D5185m 90 0 0 0 0 0 Magnesium ppm ASTM D5185m 90 35 6 15 0 Calcium ppm ASTM D5185m 2 2 0 0 0 Magnesium ppm ASTM D5185m 2 2 0 0 0 Sulfur ppm ASTM D5185m 2 0 2 1 Sulfur ppm ASTM D5185m >25 0 2 1 5 Sodiu	Copper	ppm	ASTM D5185m	>50	4	20	7
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Manganese ppm ASTM D5185m 0 0 0 0 Magnesium ppm ASTM D5185m 90 35 6 15 Calcium ppm ASTM D5185m 2 2 0 0 Phosphorus ppm ASTM D5185m 3 2 9 Zinc ppm ASTM D5185m 222 44 23 Sulfur ppm ASTM D5185m 222 44 23 Sulfur ppm ASTM D5185m 22 44 23 Solicon ppm ASTM D5185m 25 0 2 1 Sodium ppm ASTM D5185m >25 0 <1	Molybdenum		ASTM D5185m		0	0	0
Magnesium ppm ASTM D5185m 90 35 6 15 Calcium ppm ASTM D5185m 2 2 0 0 Phosphorus ppm ASTM D5185m 3 2 9 Zinc ppm ASTM D5185m 22 44 23 Sulfur ppm ASTM D5185m 17594 16033 15832 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 0 2 1 Sodium ppm ASTM D5185m >20 0 <1	-		ASTM D5185m		0	0	0
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Silicon ppm ASTM D5185m >25 0 2 1 Sodium ppm ASTM D5185m 11 1 5 Potassium ppm ASTM D5185m >20 0 <1 0 Water % ASTM D6304 >0.05 ▲ 0.154 0.010 0.014 ppm Water ppm ASTM D6304 >500 ▲ 1540 107.0 141.6 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4µm ASTM D7647 >1300 5810 Particles >6µm ASTM D7647 >80 4 1660 Particles >14µm ASTM D7647 >20 4 95 Particles >21µm ASTM D7647 >20 19 Particles >38µm ASTM D7647 >3 0 Particles >71µm ASTM D7647 >3 0 Oil Cleanliness ISO 4406 (c) >17/13 18/14	Sulfur		ASTM D5185m		17594	16033	15832
Sodium ppm ASTM D5185m 11 1 5 Potassium ppm ASTM D5185m<>20 0 <1 0 Water % ASTM D6304 >0.05 ▲ 0.154 0.010 0.014 ppm Water ppm ASTM D6304 >500 ▲ 1540 107.0 141.6 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4µm ASTM D7647 5810 Particles >6µm ASTM D7647 >1300 4 1660 Particles >14µm ASTM D7647 >80 19 95 Particles >21µm ASTM D7647 >20 19 95 Particles >38µm ASTM D7647 >3 0 0 Particles >71µm ASTM D7647 >3 0 18/14 FLUID DEGRADATION method limit/base current history1 history2	CONTAMINANTS		method	limit/base	current	history1	history2
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Potassium ppm ASTM D5185m >20 0 <1 0 Water % ASTM D6304 >0.05 ▲ 0.154 0.010 0.014 ppm Water ppm ASTM D6304 >500 ▲ 1540 107.0 141.6 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4µm ASTM D7647 5810 Particles >6µm ASTM D7647 >1300 4 1660 Particles >6µm ASTM D7647 >80 4 95 Particles >14µm ASTM D7647 >20 19 Particles >21µm ASTM D7647 >4 0 Particles >38µm ASTM D7647 >3 0 Particles >71µm ASTM D7647 >3 0 Oil Cleanliness ISO 4406 (c) >17/13 18/14					-		
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Particles >6µm ASTM D7647 >1300 ▲ 1660 Particles >14µm ASTM D7647 >80 ▲ 95 Particles >21µm ASTM D7647 >20 ▲ 95 Particles >21µm ASTM D7647 >20 19 Particles >38µm ASTM D7647 >4 0 Particles >71µm ASTM D7647 >3 0 Oil Cleanliness ISO 4406 (c) >17/13 ▲ 18/14 FLUID DEGRADATION method limit/base current history1 history2	FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
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Particles >38μm ASTM D7647 >4 0 Particles >71μm ASTM D7647 >3 0 Oil Cleanliness ISO 4406 (c) >17/13 ▲ 18/14 FLUID DEGRADATION method limit/base current history1 history2	•		ASTM D7647	>20			
Particles >71μm ASTM D7647 >3 0 Oil Cleanliness ISO 4406 (c) >17/13 ▲ 18/14 FLUID DEGRADATION method limit/base current history1 history2							
Oil Cleanliness ISO 4406 (c) >17/13 ▲ 18/14 FLUID DEGRADATION method limit/base current history1 history2	•		ASTM D7647	>3			0
							▲ 18/14
Acid Number (AN) mg KOH/g ASTM D8045 0.4 0.36 0.33 0.37	FLUID DEGRADA	TION	method	limit/base	current	history1	history2
	Acid Number (AN)	mg KOH/g	ASTM D8045	0.4	0.36	0.33	0.37

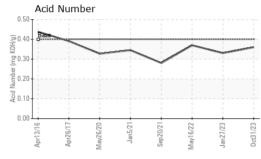
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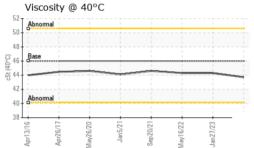
Contact/Location: ? ? - PWSCHA



OIL ANALYSIS REPORT

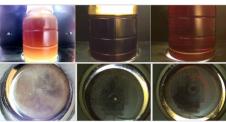






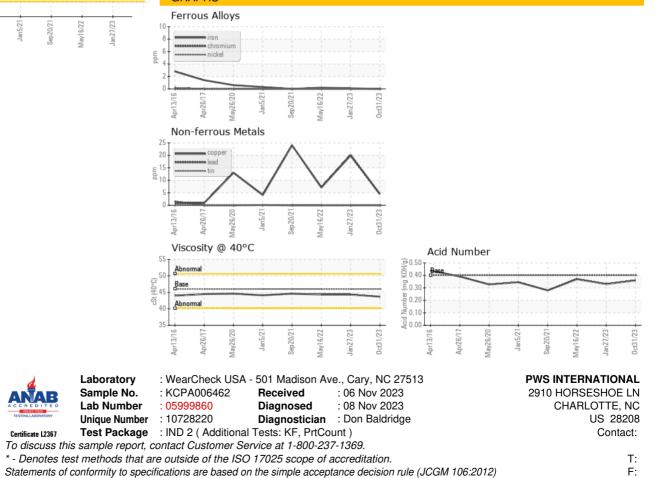
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	A MODER	NONE	NONE
Debris	scalar	*Visual	NONE	A MODER	🔺 MODER	LIGHT
Sand/Dirt	scalar	*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	6.2%	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	46	43.7	44.3	44.3
SAMPLE IMAGES	5	method	limit/base	current	history1	history2

Color



Bottom





Contact/Location: ? ? - PWSCHA

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