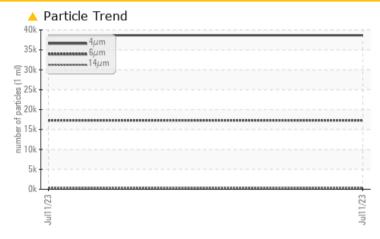


PROBLEM SUMMARY

KAESER 8470353

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

COMPONENT CONDITION SUMMARY



RECOMMENDATION

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.

PROBLEMATIC TEST RESULTS

Sample Status		ABNORMAL	
Particles >6µm	ASTM D7647 >1	300 🔺 17298	
Particles >14µm	ASTM D7647 >8	0 🔺 333	
Particles >21µm	ASTM D7647 >2	0 🔺 42	
Particles >38µm	ASTM D7647 >4	▲ 5	
Oil Cleanliness	ISO 4406 (c) >	/17/13 🔺 22/21/16	

Customer Id: VSAHOU Sample No.: KCPA005400 Lab Number: 05902332 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Doug Bogart +1 (800)237-1369 x4016 <u>dougb@wearcheckusa.com</u>

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



There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS



OIL ANALYSIS REPORT



ISO

Machine Id KAESER 8470353 Component

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

DIAGNOSIS

Recommendation

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.

Wear

All component wear rates are normal.

Contamination

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

Fluid Condition

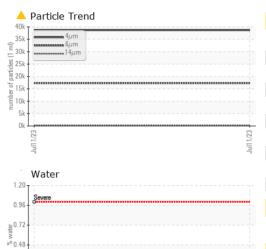
The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION method limit/base current history1 history2 Sample Number Client Info KCPA005400 Machine Age hrs Client Info 0 Oil Age hrs Client Info 0 Oil Changed Tro Client Info N/A WEAR METALS method Imit/base current History1 History2 VEAR METALS method Imit/base current History1 History2 Nickel ppm ASTM 05185m >50< <td><1</td> Trainum ppm ASTM 05185m >10 0 Aluminum ppm ASTM 05185m >10 <1 Auminum ppm ASTM 05185m >10 0	<1					Jul2023		
Sample Date Client Info 11 Jul 2023 Machine Age hrs Client Info 500 Oil Age hrs Client Info 0 Sample Status Client Info N/A WEAR METALS method Imitbase current history1 history2 Iron ppm ASTM 05185m >50 <1 Nickel ppm ASTM 05185m >30 0 Silver ppm ASTM 05185m >10 <1 Copper ppm ASTM 05185m >10 <1 Adminum ppm ASTM 05185m >10 <1 Adminum ppm ASTM 05185m >10 <1 Adaminum ppm ASTM 05185m 0 0 Adaminum <th>SAMPLE INFORM</th> <th>MATION</th> <th>method</th> <th>limit/base</th> <th>current</th> <th>history1</th> <th>history2</th>	SAMPLE INFORM	MATION	method	limit/base	current	history1	history2	
Machine Age hrs Client Info 500 Oil Age hrs Client Info N/A Sample Status Client Info N/A WEAR METALS method Imit/base current history1 history2 Iron ppm ASTM D5185n >50 <1	Sample Number		Client Info		KCPA005400			
Dil Age hrs Client Info N/A Sample Status Client Info N/A WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >50 <1	Sample Date		Client Info		11 Jul 2023			
Ol Changed Client Info N/A Sample Status method limit/base current history1 history2 WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >50 <1		hrs	Client Info		500			
Dil Changed Client Info N/A Sample Status Image Status	Oil Age	hrs	Client Info		0			
Sample Status method Imit/base current history1 history2 Iron ppm ASTM D5185m >50 <1	Oil Changed		Client Info		N/A			
ron ppm ASTM D5185m >50 <1 Nickel ppm ASTM D5185m >3 0 Nickel ppm ASTM D5185m >3 0 Silver ppm ASTM D5185m >2 0 ALuminum ppm ASTM D5185m >10 <1	Sample Status				ABNORMAL			
Chromium ppm ASTM D5185m >10 0 Nickel ppm ASTM D5185m >3 0 Silver ppm ASTM D5185m >2 0 ALuminum ppm ASTM D5185m >10 <1 Lead ppm ASTM D5185m >10 <1 Adaminum ppm ASTM D5185m >10 0 Vanadium ppm ASTM D5185m >10 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 90 2 Magnesium ppm ASTM D5185m 0 0 Magnesium ppm ASTM D5185m 0 Sulfur ppm ASTM D5185m	WEAR METALS		method	limit/base	current	history1	history2	
Nickel ppm ASTM D5185m >3 0 Titanium ppm ASTM D5185m >3 0 Sliver ppm ASTM D5185m >10 <1	Iron	ppm	ASTM D5185m	>50	<1			
Titanium ppm ASTM D5185m >3 0 Silver ppm ASTM D5185m >2 0 Aluminum ppm ASTM D5185m >10 <1	Chromium	ppm	ASTM D5185m	>10	0			
Silver ppm ASTM D5185m >2 0 Aluminum ppm ASTM D5185m >10 <1	Nickel	ppm	ASTM D5185m	>3	0			
Auminum ppm ASTM D5185m >10 <1 Lead ppm ASTM D5185m >10 <1	Titanium	ppm	ASTM D5185m	>3	0			
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Boron ppm ASTM D5185m 0 0 Barium ppm ASTM D5185m 90 2 Molybdenum ppm ASTM D5185m 0 0 Manganese ppm ASTM D5185m 100 15 Calcium ppm ASTM D5185m 0 0 Calcium ppm ASTM D5185m 0 <1	Cadmium		ASTM D5185m		0			
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Manganese ppm ASTM D5185m <1 Magnesium ppm ASTM D5185m 100 15 Calcium ppm ASTM D5185m 0 0 Calcium ppm ASTM D5185m 0 <1	Barium	ppm	ASTM D5185m	90	2			
Manganese ppm ASTM D5185m <1 Magnesium ppm ASTM D5185m 100 15 Calcium ppm ASTM D5185m 0 0 Calcium ppm ASTM D5185m 0 <1	Volybdenum	ppm	ASTM D5185m	0	0			
Delacium ppm ASTM D5185m 0 Phosphorus ppm ASTM D5185m 0 <1		ppm	ASTM D5185m		<1			
Phosphorus ppm ASTM D5185m 0 <1 Zinc ppm ASTM D5185m 0 36 Sulfur ppm ASTM D5185m 23500 19492 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 0 Sodium ppm ASTM D5185m >20 13 Potassium ppm ASTM D5185m >20 104.8 Vater % ASTM D6304 >0.05 0.010 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4µm ASTM D7647 >1300 17298 Particles >14µm ASTM D7647 >80 333 Particles >38µm ASTM D7647 20 42	Vagnesium	ppm	ASTM D5185m	100	15			
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SulfurppmASTM D5185m2350019492CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m>250SodiumppmASTM D5185m>2013PotassiumppmASTM D6304>0.050.010Water%ASTM D6304>500104.8opm WaterppmASTM D764738661Particles >4µmASTM D7647>130017298Particles >6µmASTM D7647>80333Particles >14µmASTM D7647>2042Particles >21µmASTM D7647>31Particles >71µmASTM D7647>31Dil Cleanliness<	Phosphorus	ppm	ASTM D5185m	0	<1			
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Product Product <t< td=""><td>Potassium</td><td>ppm</td><td>ASTM D5185m</td><td>>20</td><td>13</td><td></td><td></td></t<>	Potassium	ppm	ASTM D5185m	>20	13			
FLUID CLEANLINESS method limit/base current history1 history2 Particles >4µm ASTM D7647 38661 Particles >6µm ASTM D7647 >1300 17298 Particles >6µm ASTM D7647 >80 333 Particles >14µm ASTM D7647 >20 42 Particles >21µm ASTM D7647 >20 42 Particles >38µm ASTM D7647 >4 5 Particles >71µm ASTM D7647 >3 1 Oil Cleanliness ISO 4406 (c) >/17/13 22/21/16 FLUID DEGRADATION method limit/base current history1 history2	Water	%	ASTM D6304	>0.05	0.010			
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Particles >38μm ASTM D7647 >4 5 Particles >71μm ASTM D7647 >3 1 Dil Cleanliness ISO 4406 (c) >/17/13 22/21/16 FLUID DEGRADATION method limit/base current history1 history2	Particles >14µm		ASTM D7647	>80	A 333			
Particles >71µm ASTM D7647 >3 1 Dil Cleanliness ISO 4406 (c) >/17/13 ▲ 22/21/16 FLUID DEGRADATION method limit/base current history1 history2	Particles >21µm		ASTM D7647	>20	<u> </u>			
Particles >71µm ASTM D7647 >3 1 Dil Cleanliness ISO 4406 (c) >/17/13 ▲ 22/21/16 FLUID DEGRADATION method limit/base current history1 history2	Particles >38µm		ASTM D7647	>4	<u> </u>			
Dil Cleanliness ISO 4406 (c) >/17/13 22/21/16 FLUID DEGRADATION method limit/base current history1 history2			ASTM D7647	>3	1			
					A 22/21/16			
Acid Number (AN) mg KOH/g ASTM D8045 1.0 0.17	FLUID DEGRADA	TION	method	limit/base	current	history1	history2	
	Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	0.17			

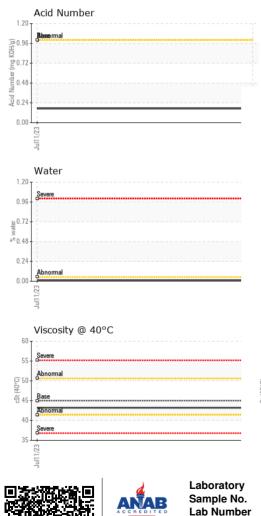


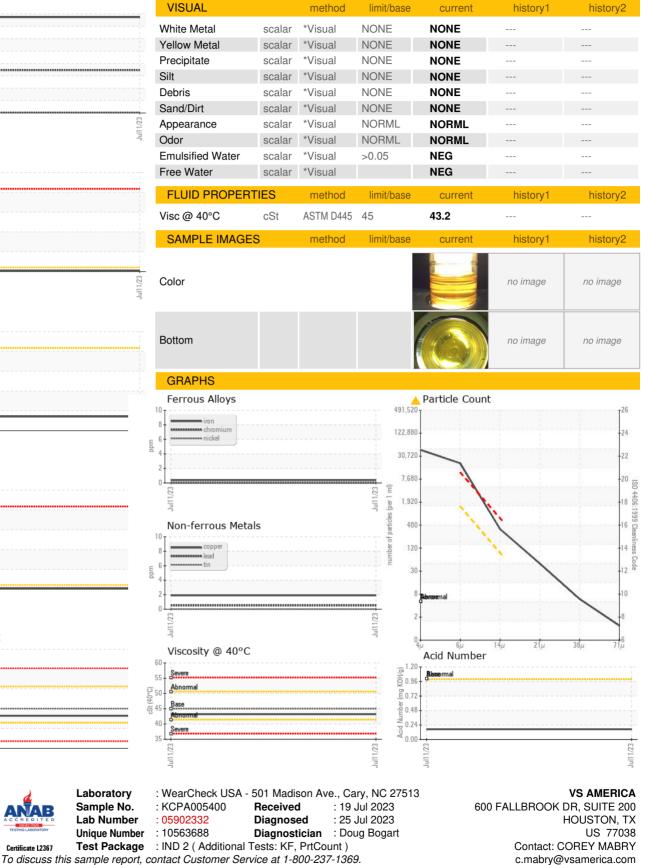
Built for a lifetime

OIL ANALYSIS REPORT









Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Unique Number

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Certificate L2367

T:

F: