

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

KAESER 8125910

Component Compressor

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

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

Fluid Condition

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

Sample Number					Apr2024		
Sample Date Client Info 05 Apr 2024	SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Date Client Info 05 Apr 2024	Sample Number		Client Info		KC130887		
Machine Age hrs Client Info 308							
Oil Age hrs Client Info 308		hre			-		
Oil Changed Sample Status Client Info Not Changd NORMAL	-						
WEAR METALS method limit/base current history1 history2	•	1113					
WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >50 0			Olletti IIIIO				
Iron							
Chromium ppm ASTM D5185m >10 <1	WEAR METALS		method	limit/base	current	history1	history2
Nickel ppm ASTM D5185m >3 0 Titanium ppm ASTM D5185m >3 0 Silver ppm ASTM D5185m >2 0 Aluminum ppm ASTM D5185m >10 0 Lead ppm ASTM D5185m >10 0 Copper ppm ASTM D5185m >50 0 Tin ppm ASTM D5185m >10 0 Vanadium ppm ASTM D5185m 0 0 Vanadium ppm ASTM D5185m 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 0 0 ADDITIVES method limit/base current <td< td=""><td>-</td><td>ppm</td><td>ASTM D5185m</td><td>>50</td><th></th><td></td><td></td></td<>	-	ppm	ASTM D5185m	>50			
Titanium ppm ASTM D5185m >3 0 Silver ppm ASTM D5185m >2 0 Aluminum ppm ASTM D5185m >10 0 Lead ppm ASTM D5185m >10 0 Copper ppm ASTM D5185m >10 0 Tin ppm ASTM D5185m 0 0 Vanadium ppm ASTM D5185m 0 0 Vanadium ppm ASTM D5185m 0 0 Cadmium ppm ASTM D5185m 0 0 Boron ppm ASTM D5185m 0 0 Barium ppm ASTM D5185m 0 0 Molybdenum ppm ASTM D5185m 0 0	Chromium	ppm	ASTM D5185m	>10	<1		
Silver	Nickel	ppm	ASTM D5185m	>3	0		
Aluminum	Titanium	ppm	ASTM D5185m	>3	0		
Lead ppm ASTM D5185m >10 0 Copper ppm ASTM D5185m >50 0 Tin ppm ASTM D5185m >10 0 Vanadium ppm ASTM D5185m 0 Cadmium ppm ASTM D5185m 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 0 0 Barium ppm ASTM D5185m 0 0 Molybdenum ppm ASTM D5185m 0 0 Magnesium ppm ASTM D5185m 0 0 Magnesium ppm ASTM D5185m 0 1 Phosphorus ppm ASTM D5185m 0 1 <td>Silver</td> <td>ppm</td> <td>ASTM D5185m</td> <td>>2</td> <th>0</th> <td></td> <td></td>	Silver	ppm	ASTM D5185m	>2	0		
Copper ppm ASTM D5185m >50 0 Tin ppm ASTM D5185m >10 0 Vanadium ppm ASTM D5185m 0 Cadmium ppm ASTM D5185m 0 0 Boron ppm ASTM D5185m 0 0 Barium ppm ASTM D5185m 90 76 Molybdenum ppm ASTM D5185m 0 0 Manganese ppm ASTM D5185m 0 0 Magnesium ppm ASTM D5185m 100 76 Magnesium ppm ASTM D5185m 0 1 Phosphorus ppm ASTM D5185m 0 1 Zinc ppm ASTM D5185m 0 0	Aluminum	ppm	ASTM D5185m	>10	0		
Tin ppm ASTM D5185m >10 0	Lead	ppm	ASTM D5185m	>10	0		
Vanadium ppm ASTM D5185m 0 Cadmium ppm ASTM D5185m 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 0 0 Barium ppm ASTM D5185m 90 76 Molybdenum ppm ASTM D5185m 0 0 Manganese ppm ASTM D5185m 0 0 Magnesium ppm ASTM D5185m 0 1 Calcium ppm ASTM D5185m 0 1 Phosphorus ppm ASTM D5185m 0 <1 Zinc ppm ASTM D5185m 0 0 Silicon ppm ASTM D5185m 225 0 -	Copper	ppm	ASTM D5185m	>50	0		
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Barium ppm ASTM D5185m 90 76 Molybdenum ppm ASTM D5185m 0 0 Manganese ppm ASTM D5185m 100 76 Magnesium ppm ASTM D5185m 0 1 Calcium ppm ASTM D5185m 0 1 Phosphorus ppm ASTM D5185m 0 -1 Zinc ppm ASTM D5185m 0 -1 Zinc ppm ASTM D5185m 0 0 Zinc ppm ASTM D5185m 0 0 Zinc ppm ASTM D5185m >25 0 Zinc ppm ASTM D5185m >20 <1 Silicon ppm ASTM D5185m >20 <1 <th>ADDITIVES</th> <th></th> <th>method</th> <th>limit/base</th> <th>current</th> <th>history1</th> <th>history2</th>	ADDITIVES		method	limit/base	current	history1	history2
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Magnesium ppm ASTM D5185m 100 76 Calcium ppm ASTM D5185m 0 1 Phosphorus ppm ASTM D5185m 0 <1		• • • • • • • • • • • • • • • • • • • •					
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Phosphorus ppm ASTM D5185m 0 <1 Zinc ppm ASTM D5185m 0 0 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 0 Sodium ppm ASTM D5185m >20 <1		• • • • • • • • • • • • • • • • • • • •					
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CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 0 Sodium ppm ASTM D5185m >20 <1							
Silicon ppm ASTM D5185m >25 0 Sodium ppm ASTM D5185m 12 Potassium ppm ASTM D5185m >20 <1 Water % ASTM D6304 >0.05 0.016 ppm Water ppm ASTM D6304 >500 166 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4μm ASTM D7647 >1300 422 Particles >6μm ASTM D7647 >80 29 Particles >21μm ASTM D7647 >20 7 Particles >38μm ASTM D7647 >4 1 Particles >71μm ASTM D7647 >3 0 Oil Cleanliness ISO 4406 (c) >/17/13 18/16/12 <th></th> <th></th> <th></th> <th>-</th> <th></th> <th></th> <th></th>				-			
Sodium ppm ASTM D5185m 12	CONTAMINANTS		method	limit/base	current	history1	history2
Potassium ppm ASTM D5185m >20 <1 Water % ASTM D6304 >0.05 0.016 ppm Water ppm ASTM D6304 >500 166 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4μm ASTM D7647 >1300 422 Particles >6μm ASTM D7647 >80 29 Particles >21μm ASTM D7647 >20 7 Particles >38μm ASTM D7647 >4 1 Particles >71μm ASTM D7647 >3 0 Oil Cleanliness ISO 4406 (c) >/17/13 18/16/12	Silicon	ppm	ASTM D5185m	>25	0		
Water % ASTM D6304 >0.05 0.016 ppm Water ppm ASTM D6304 >500 166 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4μm ASTM D7647 1743 Particles >6μm ASTM D7647 >1300 422 Particles >14μm ASTM D7647 >80 29 Particles >21μm ASTM D7647 >4 1 Particles >38μm ASTM D7647 >4 1 Particles >71μm ASTM D7647 >3 0 Oil Cleanliness ISO 4406 (c) >/17/13 18/16/12	Sodium	ppm	ASTM D5185m		12		
ppm Water ppm ASTM D6304 >500 166 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4μm ASTM D7647 1743 Particles >6μm ASTM D7647 >1300 422 Particles >14μm ASTM D7647 >80 29 Particles >21μm ASTM D7647 >20 7 Particles >38μm ASTM D7647 >4 1 Particles >71μm ASTM D7647 >3 0 Oil Cleanliness ISO 4406 (c) >/17/13 18/16/12	Potassium	ppm	ASTM D5185m	>20	<1		
FLUID CLEANLINESS method limit/base current history1 history2 Particles >4μm ASTM D7647 1743 Particles >6μm ASTM D7647 >1300 422 Particles >14μm ASTM D7647 >80 29 Particles >21μm ASTM D7647 >20 7 Particles >38μm ASTM D7647 >4 1 Particles >71μm ASTM D7647 >3 0 Oil Cleanliness ISO 4406 (c) >/17/13 18/16/12	Water	%	ASTM D6304	>0.05	0.016		
Particles >4μm ASTM D7647 1743 Particles >6μm ASTM D7647 >1300 422 Particles >14μm ASTM D7647 >80 29 Particles >21μm ASTM D7647 >20 7 Particles >38μm ASTM D7647 >4 1 Particles >71μm ASTM D7647 >3 0 Oil Cleanliness ISO 4406 (c) >/17/13 18/16/12	ppm Water	ppm	ASTM D6304	>500	166		
Particles >6μm ASTM D7647 >1300 422 Particles >14μm ASTM D7647 >80 29 Particles >21μm ASTM D7647 >20 7 Particles >38μm ASTM D7647 >4 1 Particles >71μm ASTM D7647 >3 0 Oil Cleanliness ISO 4406 (c) >/17/13 18/16/12	FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >14μm ASTM D7647 >80 29 Particles >21μm ASTM D7647 >20 7 Particles >38μm ASTM D7647 >4 1 Particles >71μm ASTM D7647 >3 0 Oil Cleanliness ISO 4406 (c) >/17/13 18/16/12	Particles >4µm		ASTM D7647		1743		
Particles >14μm ASTM D7647 >80 29 Particles >21μm ASTM D7647 >20 7 Particles >38μm ASTM D7647 >4 1 Particles >71μm ASTM D7647 >3 0 Oil Cleanliness ISO 4406 (c) >/17/13 18/16/12	Particles >6µm		ASTM D7647	>1300	422		
Particles >21μm ASTM D7647 >20 7 Particles >38μm ASTM D7647 >4 1 Particles >71μm ASTM D7647 >3 0 Oil Cleanliness ISO 4406 (c) >/17/13 18/16/12	Particles >14µm		ASTM D7647	>80	29		
Particles >38μm ASTM D7647 >4 1 Particles >71μm ASTM D7647 >3 0 Oil Cleanliness ISO 4406 (c) >/17/13 18/16/12			ASTM D7647	>20	7		
Particles >71μm ASTM D7647 >3 0 Oil Cleanliness ISO 4406 (c) >/17/13 18/16/12							
Oil Cleanliness ISO 4406 (c) >/17/13 18/16/12							
FLUID DEGRADATION method limit/base current history1 history2							
	FLUID DEGRADA	TION	method	limit/base	current	history1	history2

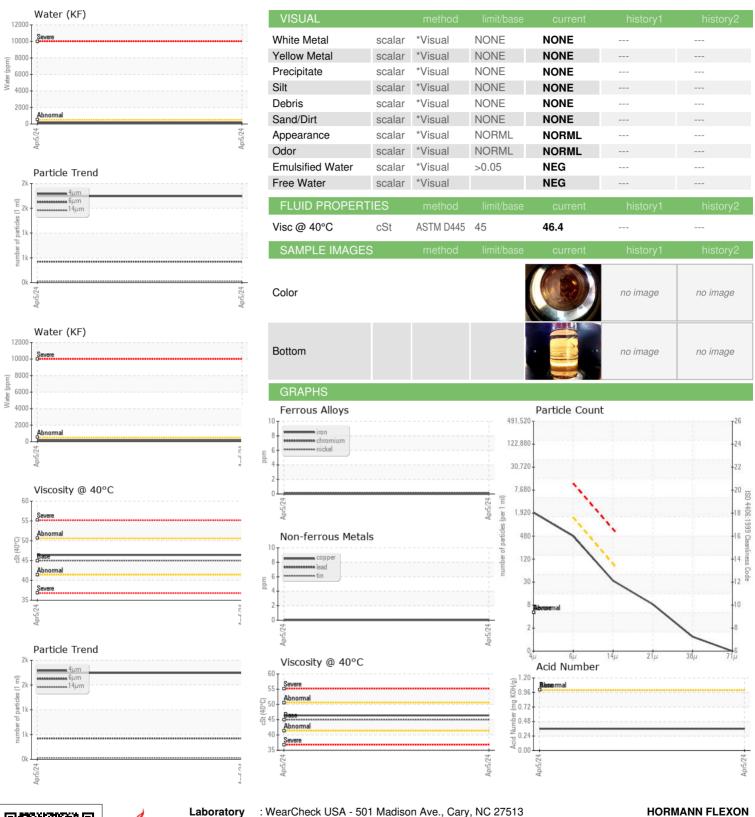
Acid Number (AN)

mg KOH/g ASTM D8045 1.0

0.36



OIL ANALYSIS REPORT





Certificate 12367

Laboratory Sample No.

: KC130887 Lab Number : 06143725 Unique Number : 10968533

Test Package : IND 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 09 Apr 2024 **Tested** : 10 Apr 2024 Diagnosed

: 12 Apr 2024 - Jonathan Hester

To discuss this sample report, contact Customer Service at 1-800-237-1369. st - 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)

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BURGETTSTOWN, PA

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