

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

KAESER 8139464

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 Number Client Info McC130884	SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Date Client Info 05 Apr 2024 Machine Age hrs Client Info 4448 Oil Age hrs Client Info 207 Oil Changed Client Info Not Changd Sample Status NoRMAL WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >50 0 Kornonium ppm ASTM D5185m >50 0 Nickel ppm ASTM D5185m >3 0 Titanium ppm ASTM D5185m >10 0 Aluminum ppm ASTM D5185m >10 0 Capper ppm ASTM D5185m >10 0 Vanadium ppm ASTM D5185m </th <th>Sample Number</th> <th></th> <th>Client Info</th> <th></th> <th>KC130884</th> <th></th> <th></th>	Sample Number		Client Info		KC130884		
Machine Age hrs Client Info 207 Oil Age hrs Client Info 207 Oil Changed Client Info Not Changd Sample Status NORMAL WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >50 0 Chromium ppm ASTM D5185m >3 0 Nickel ppm ASTM D5185m >3 0 Titanium ppm ASTM D5185m >2 0 Aluminum ppm ASTM D5185m >2 0 Aluminum ppm ASTM D5185m >10 0 Aluminum ppm ASTM D5185m >10 0 Tin ppm ASTM D5185m >50 -1 Tin ppm ASTM D5185m >50 -1 Tin ppm ASTM D5185m 0 0 ADDITIVES method limit/base current history1 history2 Barium ppm ASTM D5185m 0 0 Manganesiem ppm ASTM D5185m 0 0 Manganesiem ppm ASTM D5185m 0 0 ASTM D5185m 0 0 Calcium ppm ASTM D5185m 0 0 ASTM D5185m 0 0 Calcium ppm ASTM D5185m 0 0 Contakinante ppm ASTM D5185m 0 0 Contakina			Client Info		05 Apr 2024		
Oil Changed Sample Status Client Info Sample Status Not Changd NORMAL		hrs	Client Info		•		
Sample Status method limit/base current history1 history2 Iron ppm ASTM D5185m >50 0 Nickel ppm ASTM D5185m >3 0 Nickel ppm ASTM D5185m >3 0 Silver ppm ASTM D5185m >3 0 Aluminum ppm ASTM D5185m >10 0 Aluminum ppm ASTM D5185m >10 0 Aluminum ppm ASTM D5185m >50 <1 Lead ppm ASTM D5185m >50 <1 Tin ppm ASTM D5185m >0 0 Vanadium ppm ASTM D5185m 0 0 Boron ppm ASTM D5185m 0 0 </th <th>Oil Age</th> <th>hrs</th> <th>Client Info</th> <th></th> <th>207</th> <th></th> <th></th>	Oil Age	hrs	Client Info		207		
WEAR METALS	Oil Changed		Client Info		Not Changd		
Iron	Sample Status				NORMAL		
Chromium ppm ASTM D5185m >10 <1	WEAR METALS		method	limit/base	current	history1	history2
Nickel ppm ASTM D5185m >3 0	Iron	ppm	ASTM D5185m	>50	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 >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 <1 Tin ppm ASTM D5185m >10 0 Vanadium ppm ASTM D5185m 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 Manganese ppm ASTM D5185m 0 0 Magnesium ppm ASTM D5185m 0 1 Phosphorus ppm ASTM D5185m 0 0 Zinc ppm ASTM D5185m >2 1 <th>Silver</th> <th>ppm</th> <th>ASTM D5185m</th> <th>>2</th> <th>0</th> <th></th> <th></th>	Silver	ppm	ASTM D5185m	>2	0		
Copper ppm ASTM D5185m >50 <1	Aluminum	ppm	ASTM D5185m	>10	0		
Tin 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 0 0 Molybdenum ppm ASTM D5185m 0 0 Manganese ppm ASTM D5185m 0 0 Magnesium ppm ASTM D5185m 0 1 Calcium ppm ASTM D5185m 0 0 Phosphorus ppm ASTM D5185m 0 0 Zinc ppm ASTM D5185m 0 0 <th>Lead</th> <th>ppm</th> <th>ASTM D5185m</th> <th>>10</th> <th>0</th> <th></th> <th></th>	Lead	ppm	ASTM D5185m	>10	0		
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ADDITIVES method limit/base current history1 history2	Vanadium	ppm	ASTM D5185m		0		
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Silicon ppm ASTM D5185m >25 <1	Zinc		ASTM D5185m	0	0		
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Sodium ppm ASTM D5185m 11 Potassium ppm ASTM D5185m >20 0 Water % ASTM D6304 >0.05 0.019 ppm Water ppm ASTM D6304 >500 192 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4μm ASTM D7647 1805 Particles >6μm ASTM D7647 >80 33 Particles >14μm ASTM D7647 >80 33 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 18/16/12	Silicon	ppm	ASTM D5185m	>25	<1		
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Particles >4μm ASTM D7647 1805 Particles >6μm ASTM D7647 >1300 440 Particles >14μm ASTM D7647 >80 33 Particles >21μm ASTM D7647 >20 7 Particles >38μm ASTM D7647 >4 0 Particles >71μm ASTM D7647 >3 0 Oil Cleanliness ISO 4406 (c) >/17/13 18/16/12	ppm Water	ppm	ASTM D6304	>500	192		
Particles >6μm ASTM D7647 >1300 440 Particles >14μm ASTM D7647 >80 33 Particles >21μm ASTM D7647 >20 7 Particles >38μm ASTM D7647 >4 0 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 >6μm ASTM D7647 >1300 440 Particles >14μm ASTM D7647 >80 33 Particles >21μm ASTM D7647 >20 7 Particles >38μm ASTM D7647 >4 0 Particles >71μm ASTM D7647 >3 0 Oil Cleanliness ISO 4406 (c) >/17/13 18/16/12	Particles >4µm		ASTM D7647		1805		
Particles >14μm ASTM D7647 >80 33 Particles >21μm ASTM D7647 >20 7 Particles >38μm ASTM D7647 >4 0 Particles >71μm ASTM D7647 >3 0 Oil Cleanliness ISO 4406 (c) >/17/13 18/16/12				>1300			
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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

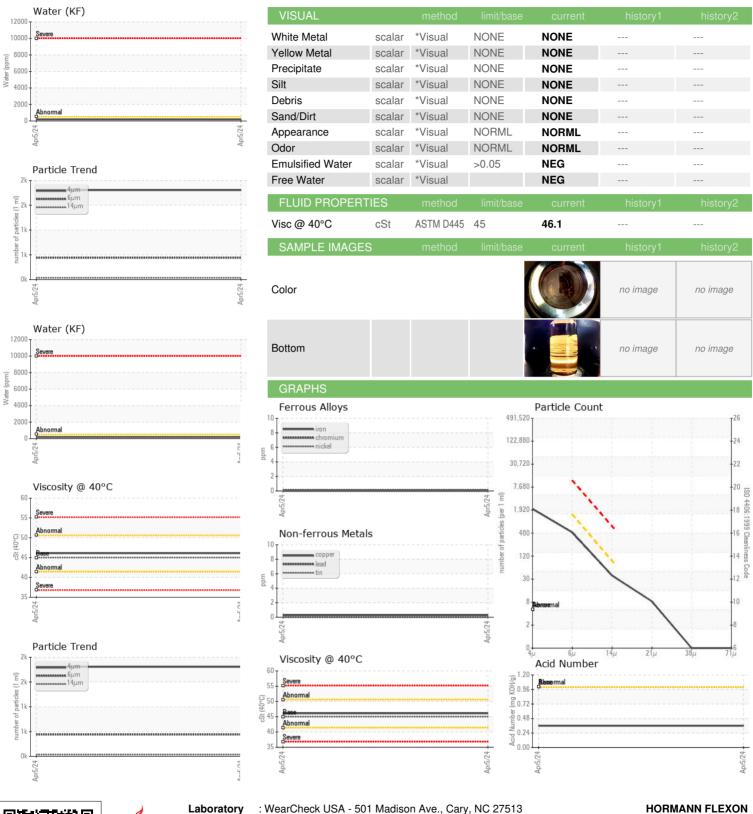
Acid Number (AN)

mg KOH/g ASTM D8045 1.0

0.36



OIL ANALYSIS REPORT





Certificate 12367

Laboratory Sample No.

Lab Number : 06143721 Unique Number : 10968529

: KC130884

Test Package : IND 2

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)

T: F:

US 15021

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BURGETTSTOWN, PA

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