

OIL ANALYSIS REPORT



Machine Id

KAESER 7899850

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

DIAGNOSIS

Recommendation

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.

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 suitable for further service.

Sample NumberClient InfoKCPA013308Sample DateClient Info26 Apr 2024Machine AgehrsClient Info3000Oil AgehrsClient InfoChangedOil ChangedVClient InfoKanopic Mathematican Mathematic	SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Machine Age hrs Client Info 6706 Oil Age hrs Client Info 3000 Sample Status c nethod Imit/base current history1 history2 Iron ppm ASTM D5185m >50 <1	Sample Number		Client Info		KCPA013308		
Oil Age hrs Client Info 3000 Sample Status Client Info Changed WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >50 <1	Sample Date		Client Info		26 Apr 2024		
Oli Changed Client Info Changed WEAR METALS method Imil/base current history1 history2 Iron ppm ASTM D5185m >50 <1	Machine Age	hrs	Client Info		6706		
Sample Status Image ABNORMAL Inition/2 WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >50 <1	Oil Age	hrs	Client Info		3000		
WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >50 <1	Oil Changed		Client Info		Changed		
Iron ppm ASTM D5185m >50 <1 Nickel ppm ASTM D5185m >30 <1	Sample Status				ABNORMAL		
Dromium ppm ASTM D5185m >10 <1	WEAR METALS		method	limit/base	current	history1	history2
Nickel ppm ASTM D5185m >3 <1 Titanium ppm ASTM D5185m >3 <1	Iron	ppm	ASTM D5185m	>50	<1		
Titanium ppm ASTM D5185m >3 <1 Silver ppm ASTM D5185m >2 <1	Chromium	ppm	ASTM D5185m	>10	<1		
Silver ppm ASTM D5185m >2 <1 Aluminum ppm ASTM D5185m >10 2 Lead ppm ASTM D5185m >10 <1	Nickel	ppm	ASTM D5185m	>3	<1		
Aluminum ppm ASTM D5185m >10 2 Lead ppm ASTM D5185m >10 <1	Titanium	ppm	ASTM D5185m	>3	<1		
Lead ppm ASTM D5185m >10 <1 Copper ppm ASTM D5185m >50 42 Tin ppm ASTM D5185m >10 <1	Silver	ppm	ASTM D5185m	>2	<1		
Copper ppm ASTM D5185m >50 42 Tin ppm ASTM D5185m >10 <1	Aluminum	ppm	ASTM D5185m	>10	2		
Tin ppm ASTM D5185m >10 <1 Vanadium ppm ASTM D5185m 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 0 <1 Manganese ppm ASTM D5185m 0 <1 Manganese ppm ASTM D5185m 0 100 6 Manganesum ppm ASTM D5185m 0 1 Manganesum ppm ASTM D5185m 0 1 Calcium ppm ASTM D5185m 0 1 Sulfur ppm ASTM D5185m 2.5 <1	Lead	ppm	ASTM D5185m	>10	<1		
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Vanadium ppm ASTM D5185m 0 Cadmium ppm ASTM D5185m <1				>10	<1		
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Barium ppm ASTM D5185m 90 <1	ADDITIVES		method	limit/base	current	history1	history2
Molybdenum ppm ASTM D5165m 0 <1 Manganese ppm ASTM D5185m 100 6 Magnesium ppm ASTM D5185m 100 6 Calcium ppm ASTM D5185m 0 0 Calcium ppm ASTM D5185m 0 1 Zinc ppm ASTM D5185m 0 4 Sulfur ppm ASTM D5185m 23500 17025 Sulfur ppm ASTM D5185m 23500 17025 Sulfur ppm ASTM D5185m >25 <1	Boron	ppm	ASTM D5185m	0	0		
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Zinc ppm ASTM D5185m 0 4 Sulfur ppm ASTM D5185m 23500 17025 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 <1	Phosphorus	ppm	ASTM D5185m	0	1		
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Water % ASTM D6304 >0.05 0.020 ppm Water ppm ASTM D6304 >500 206 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4µm ASTM D7647 8809 Particles >6µm ASTM D7647 >1300 5191 Particles >6µm ASTM D7647 >80 1401 Particles >14µm ASTM D7647 >20 438 Particles >21µm ASTM D7647 >20 438 Particles >38µm ASTM D7647 >3 0 Particles >71µm ASTM D7647 >3 0 Oil Cleanliness ISO 4406 (c) >/17/13 20/20/18 FLUID DEGRADATION method limit/base current history1 history2	Sodium	ppm	ASTM D5185m		6		
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Particles >21μm ASTM D7647 >20 ▲ 438 Particles >38μm ASTM D7647 >4 ▲ 25 Particles >71μm ASTM D7647 >3 0 Oil Cleanliness ISO 4406 (c) >/17/13 ▲ 20/20/18 FLUID DEGRADATION method limit/base current history1 history2	Particles >6µm		ASTM D7647	>1300	<u> </u>		
Particles >38μm ASTM D7647 >4 ▲ 25 Particles >71μm ASTM D7647 >3 0 Oil Cleanliness ISO 4406 (c) >/17/13 ▲ 20/20/18 FLUID DEGRADATION method limit/base current history1 history2	Particles >14µm		ASTM D7647	>80	4 1401		
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Oil Cleanliness ISO 4406 (c) >/17/13 20/20/18 FLUID DEGRADATION method limit/base current history1 history2	Particles >38µm		ASTM D7647	>4	<u> </u>		
FLUID DEGRADATION method limit/base current history1 history2	Particles >71µm		ASTM D7647	>3	0		
	Oil Cleanliness		ISO 4406 (c)	>/17/13	20/20/18		
Acid Number (AN) mg KOH/g ASTM D8045 1.0 0.31	FLUID DEGRADA	TION	method	limit/base	current	history1	history2
	Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	0.31		



Built for a lifetime 🔺 Particle Trend

14µm

10

6

4

21

0

12000

1000

800 (maa)

600 Water 400

200

1.20

(B/H0.9 E0.72

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Pig 0.24

0.00

1000

600 Water (

4000

200

60

55

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40

35

Vnr26/5

Water (KF)

Acid Number

Water (KF)

Abnormal n

Viscosity @ 40°C

nr26/

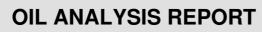
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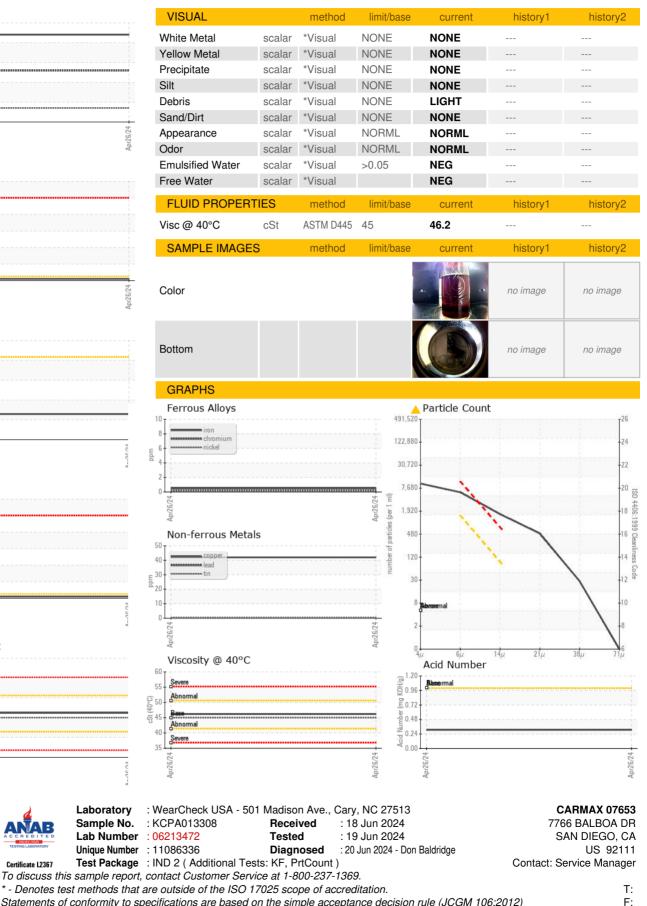
Abnorma

S

Apr76/74

of particles (1 ml)





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

Contact/Location: Service Manager - CARSANCAL