

## **OIL ANALYSIS REPORT**

## KAESER SM 10 355574 (S/N 1597) Component

Compressor

### KAESER SIGMA (OEM) M-460 (--- LTR)

#### DIAGNOSIS

#### Recommendation

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

#### Wear

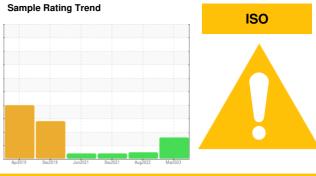
All component wear rates are normal.

#### 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.



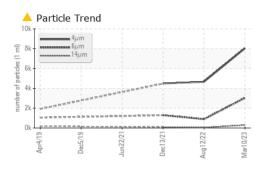
Sample Date Client Info 10 Mar 2023 12 Aug 2022 13	history2
5	CP43920
Machine Age has Client Info 16956 16956 14	3 Dec 2021
Machine Age Ins Cherit Into 10000 10000 10000	6854
Oil Age hrs Client Info 0 1 0	
Oil Changed Client Info Changed Not Changd C	hanged
Sample Status ABNORMAL NORMAL A	TTENTION
WEAR METALS method limit/base current history1	history2
Iron ppm ASTM D5185m >50 <b>0</b> 0	0
Chromium ppm ASTM D5185m >10 0 0	0
Nickel ppm ASTM D5185m >3 0 <1	0
Titanium ppm ASTM D5185m >3 <1 0	0
Silver ppm ASTM D5185m >2 0 <1	<1
Aluminum ppm ASTM D5185m >10 <1	<1
Lead ppm ASTM D5185m >10 0 0	0
Copper ppm ASTM D5185m >50 8 2	6
Tin ppm ASTM D5185m >10 0 <1	<1
Antimony ppm ASTM D5185m	0
Vanadium ppm ASTM D5185m <1 0	0
Cadmium ppm ASTM D5185m 0 0	0
ADDITIVES method limit/base current history1	history2
Boron ppm ASTM D5185m 0 0 0	<1
Barium ppm ASTM D5185m 90 <b>0</b> 40	0
Molybdenum ppm ASTM D5185m 0 <1 0	0
Manganese ppm ASTM D5185m <1 <1	0
Magnesium ppm ASTM D5185m 100 13 65	6
Calcium ppm ASTM D5185m 0 0 0	0
Phosphorus ppm ASTM D5185m 0 3 2	0
Zinc ppm ASTM D5185m 0 33 14	19
Sulfur ppm ASTM D5185m 23500 21324 18936	17532
	history2
CONTAMINANTS method limit/base current history1	0
	0
Silicon ppm ASTM D5185m >25 15 1	1
Silicon ppm ASTM D5185m >25 15 1   Sodium ppm ASTM D5185m 2 3	
Silicon ppm ASTM D5185m >25 15 1   Sodium ppm ASTM D5185m 20 2 3   Potassium ppm ASTM D5185m >20 0 0	1
Silicon ppm ASTM D5185m >25 15 1   Sodium ppm ASTM D5185m 20 2 3   Potassium ppm ASTM D5185m >20 0 0   Water % ASTM D6304 >0.05 0.007 0.022	1 0
Silicon ppm ASTM D5185m >25 15 1   Sodium ppm ASTM D5185m 20 2 3   Potassium ppm ASTM D5185m >20 0 0   Water % ASTM D6304 >0.05 0.007 0.022	1 0 0.006
Silicon ppm ASTM D5185m >25 15 1   Sodium ppm ASTM D5185m 2 3 2 3   Potassium ppm ASTM D5185m >20 0 0   Water % ASTM D6304 >0.05 0.007 0.022   ppm ASTM D6304 >500 74.4 228.6   FLUID CLEANLINESS method limit/base current history1	1 0 0.006 65.9
Silicon ppm ASTM D5185m >25 15 1   Sodium ppm ASTM D5185m 2 3 3	1 0 0.006 65.9 history2
Silicon ppm ASTM D5185m >25 15 1   Sodium ppm ASTM D5185m 2 3 2   Potassium ppm ASTM D5185m >20 0 0   Water % ASTM D6304 >0.05 0.007 0.022 ppm   ppm Water ppm ASTM D6304 >500 74.4 228.6 1   FLUID CLEANLINESS method limit/base current history1   Particles >4μm ASTM D7647 8045 4663   Particles >6μm ASTM D7647 >1300 3038 892	1 0.006 65.9 history2 4488
Silicon ppm ASTM D5185m >25 15 1   Sodium ppm ASTM D5185m 2 3 2   Potassium ppm ASTM D5185m >20 0 0   Water % ASTM D6304 >0.05 0.007 0.022 0   ppm Water ppm ASTM D6304 >500 74.4 228.6 1   FLUID CLEANLINESS method limit/base current history1   Particles >4μm ASTM D7647 8045 4663   Particles >6μm ASTM D7647 >1300 3038 892   Particles >14μm ASTM D7647 >80 293 41	1 0.006 65.9 history2 4488 1289
Silicon ppm ASTM D5185m >25 15 1   Sodium ppm ASTM D5185m 2 3 3   Potassium ppm ASTM D5185m >20 0 0   Water % ASTM D6304 >0.05 0.007 0.022   ppm Water ppm ASTM D6304 >500 74.4 228.6   FLUID CLEANLINESS method limit/base current history1   Particles >4µm ASTM D7647 8045 4663   Particles >6µm ASTM D7647 >1300 3038 892   Particles >14µm ASTM D7647 >80 293 41   Particles >21µm ASTM D7647 >20 60 8	1 0.006 65.9 history2 4488 1289 89
Silicon ppm ASTM D5185m >25 15 1   Sodium ppm ASTM D5185m 2 3    Potassium ppm ASTM D5185m >20 0 0   Water % ASTM D6304 >0.05 0.007 0.022    ppm Water ppm ASTM D6304 >500 74.4 228.6    FLUID CLEANLINESS method limit/base current history1    Particles >4µm ASTM D7647 >1300 A 3038 892    Particles >6µm ASTM D7647 >80 293 41    Particles >21µm ASTM D7647 >20 60 8    Particles >38µm ASTM D7647 >4 2 0	1 0 0.006 65.9 history2 4488 1289 89 15
Silicon ppm ASTM D5185m >25 15 1   Sodium ppm ASTM D5185m 2 3    Potassium ppm ASTM D5185m >20 0 0   Water % ASTM D6304 >0.05 0.007 0.022 ppm   ppm Water ppm ASTM D6304 >500 74.4 228.6    FLUID CLEANLINESS method limit/base current history1   Particles >4µm ASTM D7647 >1300 A 3038 892    Particles >6µm ASTM D7647 >80 293 41    Particles >21µm ASTM D7647 >20 60 8    Particles >38µm ASTM D7647 >4 2 0	1 0 0.006 65.9 history2 4488 1289 89 15 15
Silicon ppm ASTM D5185m >25 15 1   Sodium ppm ASTM D5185m 2 3 0   Potassium ppm ASTM D5185m >20 0 0   Water % ASTM D6304 >0.05 0.007 0.022   ppm Water ppm ASTM D6304 >500 74.4 228.6   FLUID CLEANLINESS method limit/base current history1   Particles >4µm ASTM D7647 8045 4663   Particles >6µm ASTM D7647 >1300 3038 892   Particles >14µm ASTM D7647 >80 293 41   Particles >21µm ASTM D7647 >20 60 8   Particles >38µm ASTM D7647 >4 2 0   Particles >71µm ASTM D7647 >3 0 0	1 0.006 65.9 history2 4488 1289 89 15 15 1

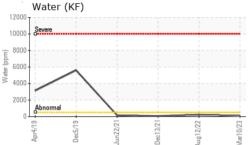
Contact/Location: JOHN SIMPSON - OLDWESCA

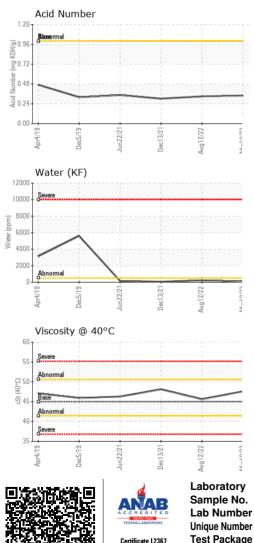
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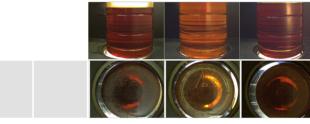


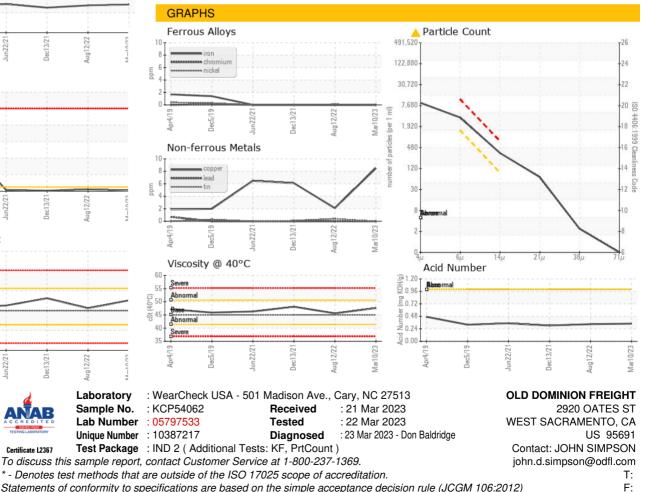




VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.05	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	TIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	45	47.6	45.6	48.1
SAMPLE IMAGE	S	method	limit/base	current	history1	history2
Color						

Bottom





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

Contact/Location: JOHN SIMPSON - OLDWESCA