

OIL ANALYSIS REPORT

KAESER SM 10 7181402 (S/N 1281)

Compressor

KAESER SIGMA (OEM) S-460 (--- LTR)

DIAGNOSIS

Recommendation

The filter change at the time of sampling has been noted. We advise that you stop the unit and follow the water drain-off procedure for this component. We recommend an early resample in 500 hours to monitor this condition.

Wear

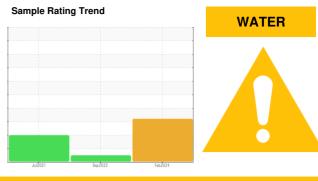
All component wear rates are normal.

Contamination

There is a moderate amount of particulates present in the oil. There is a light concentration of water present in the oil.

Fluid Condition

The AN level is acceptable for this fluid.

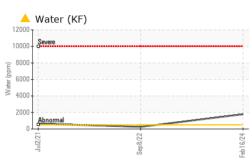


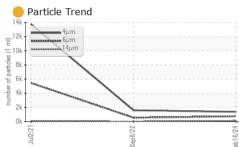
Sample NumberClient InfoKC05012232KC05656267KC0501242Sample DateClient Info16 Feb 202303 Sep 20202 Jul 2011Machine AgehrsClient Info976931254Oil AgehrsClient InfoN/AChangedChangedSample StatusClient InfoN/AChangedChangedWEAR METALSmethodImticescurrentNoRMALNoRMALNormiumppmASTM 051555>50000NickelppmASTM 051555>33000NickelppmASTM 051555>30000SilverppmASTM 051555>30000SilverppmASTM 051555>30000LeadppmASTM 051555>10<100AuminumppmASTM 051555>10<100AdaminumppmASTM 0515550000AdaminumppmASTM 0515550000AdaminumppmASTM 0515550000AdaminumppmASTM 0515550001AdaminumppmASTM 0515550001AdaminumppmASTM 0515550000AdaminumppmASTM 0515550001AdaminumppmASTM 051555<	SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
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Sample Status Image: method ABNORMAL NORMAL ABNORMAL WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >50 0 0 <1 Chromium ppm ASTM D5185m >30 0 0 0 Nickel ppm ASTM D5185m >30 0 0 <1 Titanium ppm ASTM D5185m >2 0 0 <1 Copper ppm ASTM D5185m >10 <1 0 <1 0 Lead ppm ASTM D5185m >10 <1 0 0 0 Copper ppm ASTM D5185m 0 0 0 0 0 Vanadium ppm ASTM D5185m 0 0 0 0 0 Codemium ppm ASTM D5185m 0 0 1 28 53 Barium ppm ASTM	Oil Age	hrs	Client Info		0	693	1254
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Barium ppm ASTM D5185m 90 0 0 0 Molybdenum ppm ASTM D5185m 0 0 0 Magnaese ppm ASTM D5185m 0 1 <1 Magnesium ppm ASTM D5185m 90 1 28 53 Calcium ppm ASTM D5185m 90 1 28 53 Calcium ppm ASTM D5185m 90 1 28 53 Calcium ppm ASTM D5185m 90 4 5 5 Zinc ppm ASTM D5185m 0 6 4 5 Zinc ppm ASTM D5185m >25 0 <1 0 0 Sodium ppm ASTM D5185m >20 0 5 6 12 Potassium ppm ASTM D5185m >20 0 5 6 3.0 Patter % ASTM D5185m >20 0 <td< th=""><th>ADDITIVES</th><th></th><th>method</th><th>limit/base</th><th>current</th><th>history1</th><th>history2</th></td<>	ADDITIVES		method	limit/base	current	history1	history2
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Calcium ppm ASTM D5185m 2 0 0 <1	Manganese	ppm	ASTM D5185m		0	<1	<1
Phosphorus ppm ASTM D5185m 0 4 5 Zinc ppm ASTM D5185m 0 6 4 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 0 <1	Magnesium	ppm	ASTM D5185m	90	1	28	53
Zinc ppm ASTM D5185m 0 6 4 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 0 <1 0 Sodium ppm ASTM D5185m >25 0 <1 0 Sodium ppm ASTM D5185m >20 0 5 6 Vater % ASTM D6304 >0.05 0.178 0.025 0.065 ppm Water ppm ASTM D6304 >500 1780 254.9 653.0 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4µm ASTM D7647 >1300 744 546 5442 Particles >14µm ASTM D7647 >80 127 32 71 Particles >21µm ASTM D7647 >4 7 1 0 Particles >38µm ASTM D7647 >3 1 0 0	Calcium	ppm	ASTM D5185m	2	0	0	<1
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Particles >38μm ASTM D7647 >4 7 1 0 Particles >71μm ASTM D7647 >3 1 0 0 Oil Cleanliness ISO 4406 (c) >/17/13 18/17/14 18/16/12 20/13 FLUID DEGRADATION method limit/base current history1 history2	Particles >21µm		ASTM D7647	>20	4 3		12
Particles >71μm ASTM D7647 >3 1 0 0 Oil Cleanliness ISO 4406 (c) >/17/13 18/17/14 18/16/12 20/13 FLUID DEGRADATION method limit/base current history1 history2			ASTM D7647	>4	7		0
Oil Cleanliness ISO 4406 (c) >/17/13 18/17/14 18/16/12 20/13 FLUID DEGRADATION method limit/base current history1 history2			ASTM D7647	>3	-	0	0
						18/16/12	2 0/13
	FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
					0.31		

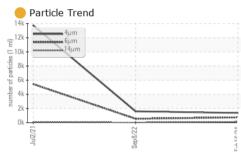
Contact/Location: Service Manager - UNIATH

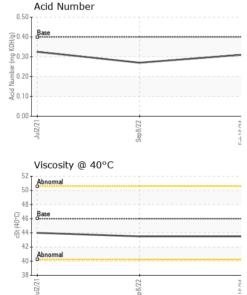


OIL ANALYSIS REPORT



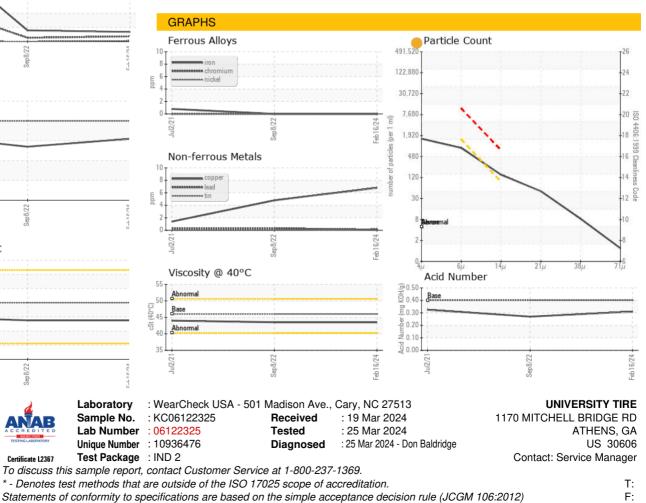






VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.05	6.2%	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	46	43.5	43.5	44.0
SAMPLE IMAGES		method	limit/base	current	history1	history2
Color						
Bottom						

Bottom



Contact/Location: Service Manager - UNIATH