

OIL ANALYSIS REPORT

KAESER AIRCENTER SM 10 3225668 (S/N 1287)

Sample Number

hrs

hrs

Sample Date

Machine Age

Oil Changed

Sample Status

Oil Age

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

DIAGNOSIS

Compressor

Machine Id

Recommendation

We recommend you service the filters on this component. 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 high 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. The condition of the oil is suitable for further service.



WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	1	0	<1
Chromium	ppm	ASTM D5185m	>10	<1	0	0
Nickel	ppm	ASTM D5185m	>3	2	0	0
Titanium	ppm	ASTM D5185m	>3	<1	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>10	1	<1	0
Lead	ppm	ASTM D5185m	>10	2	0	<1
Copper	ppm	ASTM D5185m	>50	15	9	4
Tin	ppm	ASTM D5185m	>10	1	0	0
Antimony	ppm	ASTM D5185m				0
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		1	0	0

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	0	0
Barium	ppm	ASTM D5185m	90	1	1	0
Molybdenum	ppm	ASTM D5185m	0	1	0	0
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	100	26	18	29
Calcium	ppm	ASTM D5185m	0	8	<1	0
Phosphorus	ppm	ASTM D5185m	0	9	1	3
Zinc	ppm	ASTM D5185m	0	68	133	67
Sulfur	ppm	ASTM D5185m	23500	21336	23741	20212
CONTAMINANTS		method	limit/base	current	history1	history2

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Silicon	ppm	ASTM D5185m	>25	<1	2	0
Sodium	ppm	ASTM D5185m		4	15	25
Potassium	ppm	ASTM D5185m	>20	3	<1	3
Water	%	ASTM D6304	>0.05	<u> </u>	▲ 0.104	0.008
ppm Water	ppm	ASTM D6304	>500	<u> </u>	🔺 1040	84.3

FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647		1766		8331
Particles >6µm	ASTM D7647	>1300	962		663
Particles >14µm	ASTM D7647	>80	🔺 164		127
Particles >21µm	ASTM D7647	>20	🔺 55		4 0
Particles >38µm	ASTM D7647	>4	<u> </u>		2
Particles >71µm	ASTM D7647	>3	1		0
Oil Cleanliness	ISO 4406 (c)	>/17/13	A 18/17/15		18/14
FLUID DEGRADATION	method	limit/base	current	history1	history2

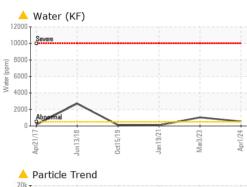
Acid Number (AN)

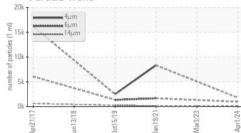
mg KOH/g ASTM D8045 1.0

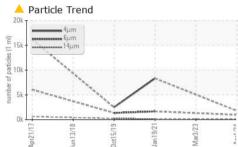
0.25 0.156 0.34 Contact/Location: SERVICE MANAGER ? - PETCHEMA

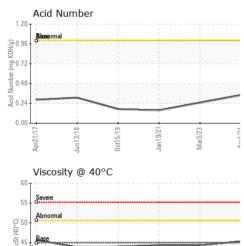


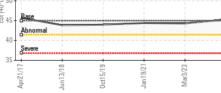
OIL ANALYSIS REPORT





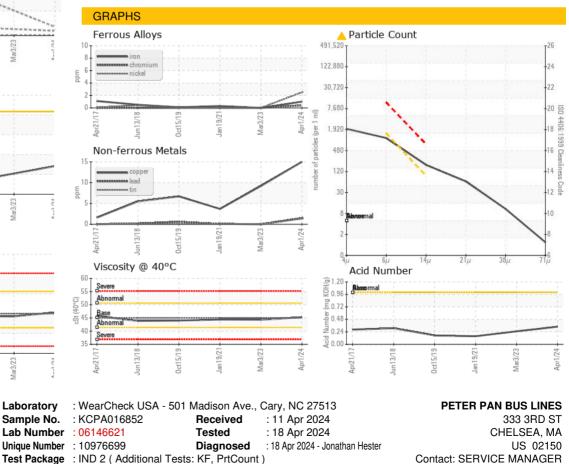


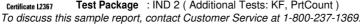




VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	🔺 MODER	LIGHT
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	- HAZY	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.05	0.2%	▲ 0.2%	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	45	45.3	44.3	44.4
SAMPLE IMAGES	6	method	limit/base	current	history1	history2
Color						

Bottom





* - 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)

Contact/Location: SERVICE MANAGER ? - PETCHEMA

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