

# **OIL ANALYSIS REPORT**

#### Machine Ic KAESER SM 10 4591746 (S/N 1307) Component

Compressor

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

# DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor.

#### Wear

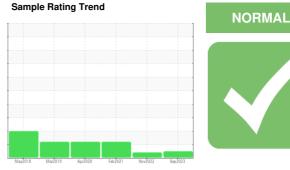
All component wear rates are normal.

#### Contamination

The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.

### Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



		May2018	Mar2019 Apr2020	Feb2021 Nov2022	Sep2023	
SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KCPA006629	KCP47796D	KCP27967
Sample Date		Client Info		26 Sep 2023	15 Nov 2022	22 Feb 2021
Machine Age	hrs	Client Info		36022	32877	29848
Oil Age	hrs	Client Info		0	3029	3489
Oil Changed		Client Info		N/A	Changed	Changed
Sample Status				NORMAL	ATTENTION	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	0	<1	<1
Chromium	ppm	ASTM D5185m	>10	<1	0	0
Nickel	ppm	ASTM D5185m	>3	0	0	0
Titanium	ppm	ASTM D5185m	>3	0	0	0
Silver	ppm	ASTM D5185m	>2	0	<1	0
Aluminum	ppm	ASTM D5185m	>10	<1	<1	<1
Lead	ppm	ASTM D5185m	>10	0	0	<1
Copper	ppm	ASTM D5185m		2	7	2
Tin	ppm	ASTM D5185m	>10	0	0	<1
Antimony	ppm	ASTM D5185m				<1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	0	12
Barium	ppm	ASTM D5185m	90	44	<1	4
Molybdenum	ppm	ASTM D5185m	0	0	0	0
Manganese	ppm	ASTM D5185m		0	<1	0
Magnesium	ppm	ASTM D5185m	100	93	66	82
Calcium	ppm	ASTM D5185m	0	2	2	2
Phosphorus	ppm	ASTM D5185m	0	0	5	2
Zinc	ppm	ASTM D5185m	0	0	8	0
Sulfur	ppm	ASTM D5185m	23500	23863	25290	19383
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<1	3	3
Sodium	ppm	ASTM D5185m		<1	25	25
Potassium	ppm	ASTM D5185m		2	0	2
Water	%	ASTM D6304	>0.05	0.041	0.023	0.021
ppm Water	ppm	ASTM D6304	>500	419.5	239.6	210.5
FLUID CLEANLINE	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		2364	4408	29017
Particles >6µm		ASTM D7647	>1300	454	810	▲ 8992
Particles >14µm		ASTM D7647	>80	21	43	▲ 909
Particles >21µm		ASTM D7647	>20	6	9	<u> </u>
Particles >38µm		ASTM D7647	>4	0	1	4
D 11 74		AOTH DEAK	0	•	0	0

## Acid Number (AN) Report Id: SOUSHAMN [WUSCAR] 05997397 (Generated: 11/05/2023 10:26:39) Rev: 1

Particles >71µm

**Oil Cleanliness** 

FLUID DEGRADATION

mg KOH/g ASTM D8045 1.0

ASTM D7647 >3

ISO 4406 (c) >--/17/13

0.38

0

18/16/12

0.33 Contact/Location: Service Manager - SOUSHAMN

0

19/17/13

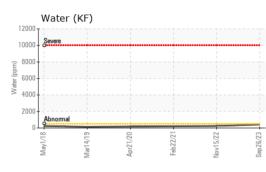
0

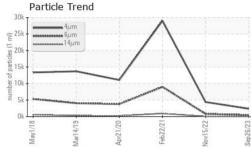
▲ 20/17

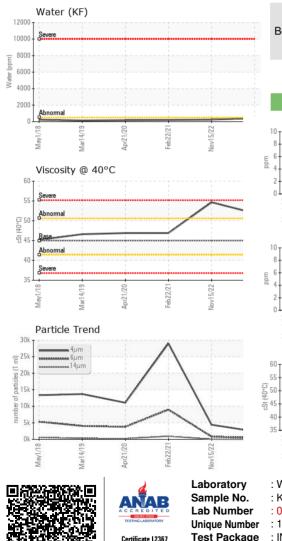
0.327



# **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	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	45	51.9	▲ 54.66	46.9
SAMPLE IMAGES	;	method	limit/base	current	history1	history2
Color						

Bottom

