

## **OIL ANALYSIS REPORT**

ISO

#### Machine Id **7136996 (S/N 1094)** Component **Compressor**

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

### DIAGNOSIS

#### Recommendation

No corrective action is recommended at this time. The 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 INFORM	<b>IATION</b>	method	limit/base	current	history1	history2
Sample Number		Client Info		KC06151163	KC06047777	KC05994390
Sample Date		Client Info		20 Mar 2024	11 Dec 2023	17 Oct 2023
Machine Age	hrs	Client Info		37417	35032	33739
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	0 N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	0	0	<1
Chromium	ppm	ASTM D5185m	>10	0	0	<1
Nickel	ppm	ASTM D5185m	>3	<1	0	0
Titanium	ppm	ASTM D5185m	>3	0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>10	<1	0	<1
Lead	ppm	ASTM D5185m	>10	0	0	0
Copper	ppm	ASTM D5185m	>50	5	9	<1
Tin	ppm	ASTM D5185m	>10	<1	0	<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
Barium	ppm	ASTM D5185m	90	0	0	20
Molybdenum	ppm	ASTM D5185m		0	0	<1
Manganese	ppm	ASTM D5185m		1	<1	0
Magnesium	ppm	ASTM D5185m	90	3	0	<1
Calcium	ppm	ASTM D5185m	2	<1	0	0
Phosphorus	ppm	ASTM D5185m		0	57	39
Zinc	ppm	ASTM D5185m		0	0	20
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<1	1	3
Sodium	ppm	ASTM D5185m		2	3	5
Potassium	ppm	ASTM D5185m	>20	1	1	0
Water	%	ASTM D6304	>0.05	0.006	0.035	0.005
ppm Water	ppm	ASTM D6304	>500	60	357	53.6
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		12166	124989	12401
Particles >6µm		ASTM D7647	>1300	<u> </u>	<b>A</b> 27526	▲ 3892
Particles >14µm		ASTM D7647	>80	<b>A</b> 1325	<b>4</b> 2490	<b>1</b> 126
Particles >21µm		ASTM D7647	>20	<u> </u>	<b>A</b> 813	▲ 608
Particles >38µm		ASTM D7647	>4	<mark>/</mark> 63	<u> </u>	<b>5</b> 6
Particles >71µm		ASTM D7647	>3	3	2	3
Oil Cleanliness		ISO 4406 (c)	>/17/13	<b>1</b> 21/19/18	▲ 24/22/18	▲ 21/19/17
	TION	and the state	lives it /le e e e			
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2



200

0.60

(B/HOX

Water (ppm)

Aar31

Acid Number

# **OIL ANALYSIS REPORT**

scalar

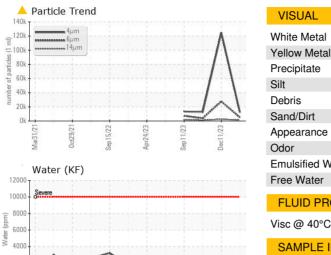
scalar

scalar

scalar

scalar

scalar



nr74/73

eol

en15/22

	Odor	scalar	*Visual	NORML	NORML	NORML
	Emulsified Water	scalar	*Visual	>0.05	NEG	NEG
	Free Water	scalar	*Visual		NEG	NEG
	FLUID PROPERTIES		method	limit/base	current	history1
	TEOD THOI ENTIES		method	iiiiii/base	Guirent	mistory
	Visc @ 40°C	cSt	ASTM D445	46	43.7	43.6
	SAMPLE IMAGES		method	limit/base	current	history1
_	Color					

method

\*Visual

\*Visual

\*Visual

\*Visual

\*Visual

\*Visual

scalar \*Visual

limit/base

NONE

NONE

NONE

NONE

NONE

NONE

NORML

current

NONE

NONE

NONE

NONE

LIGHT

NONE

NORML

history1

NONE

NONE

NONE

LIGHT

NONE

NONE

NORML

history2

NONE

NONE

NONE

NONE

LIGHT

NONE

NORML

NORML

history2

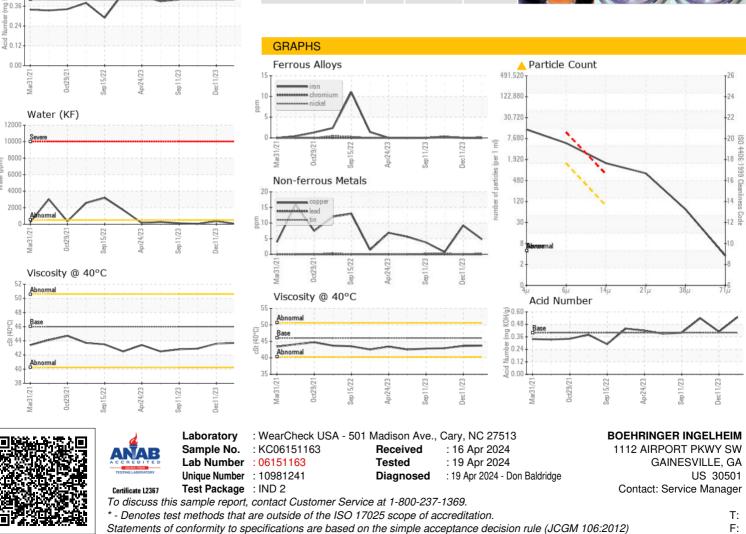
history2

NEG

NEG

42.9

Bottom



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Contact/Location: Service Manager - BOEGAI Page 2 of 2