

### **OIL ANALYSIS REPORT**

Sample Rating Trend



# KAESER AIRTOWER 5C 4359172 (S/N 1084)

Component Compressor Fluid

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

#### DIAGNOSIS

#### Recommendation

No corrective action is recommended at this time. Oil and 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 no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

#### Fluid Condition

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

		Ma	y2021	Jun2023 Apr202	14	
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KCPA012768	KCPA002150	KCP31365
Sample Date		Client Info		29 Apr 2024	23 Jun 2023	11 May 2021
Machine Age	hrs	Client Info		0	4583	1223
Oil Age	hrs	Client Info		1212	0	384
Oil Changed		Client Info		Changed	N/A	Changed
Sample Status				NORMAL	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	0	<1	<1
Chromium	ppm	ASTM D5185m	>10	0	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	0	0	<1
_ead	ppm	ASTM D5185m	>10	0	<1	2
Copper	ppm	ASTM D5185m	>50	20	4	3
Гin	ppm	ASTM D5185m	>10	<1	<1	0
Antimony	ppm	ASTM D5185m				0
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	21
Barium	ppm	ASTM D5185m	90	<1	18	71
Nolybdenum	ppm	ASTM D5185m	0	0	0	<1
Vanganese	ppm	ASTM D5185m		0	0	0
Vagnesium	ppm	ASTM D5185m	100	0	49	88
Calcium	ppm	ASTM D5185m	0	0	<1	0
Phosphorus	ppm	ASTM D5185m	0	0	1	2
Zinc	ppm	ASTM D5185m	0	22	2	4
Sulfur	ppm	ASTM D5185m	23500	16940	22579	20167
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	0	1	5
Sodium	ppm	ASTM D5185m		<1	6	15
Potassium	ppm	ASTM D5185m	>20	0	3	0
Water	%	ASTM D6304	>0.05	0.007	▲ 0.452	0.029
opm Water	ppm	ASTM D6304	>500	72	4520	296.1
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		5397		
Particles >6µm		ASTM D7647	>1300	1193		
Particles >14µm		ASTM D7647	>80	55		
Particles >21µm		ASTM D7647	>20	14		
Particles >38µm		ASTM D7647	>4	1		
Particles >71µm		ASTM D7647	>3	0		
Oil Cleanliness		ISO 4406 (c)	>/17/13	20/17/13		
FLUID DEGRADA		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	0.7	0.38	0.339
59:30) Rev: 1	Contact/Location: ? ? - SERENG					
						<b>–</b> , , ,

Report Id: SERENG [WUSCAR] 06176101 (Generated: 05/14/2024 15:59:30) Rev: 1

\_\_\_\_\_



12000

10000

800 Water (ppm)

6000

4000

2000 0 Abn

6 Ê 5 les (1 41

pitie 3k

Ok /Jav1

12000

n

60

() 5( 0

-₹3 45 Base

4

35 May11/21

6

Ê 5

E 31

2

0

Mav1

May1

S 55

Abnormal

Particle Trend

Severe

Viscosity @ 40°C

un23/23

## **OIL ANALYSIS REPORT**

Water (KF)	VISUAL		method
Severe	White Metal	scalar	*Visual
	Yellow Metal	scalar	*Visual
	Precipitate	scalar	*Visual
$\sim$	Silt	scalar	*Visual
	Debris	scalar	*Visual
Abnosma	Sand/Dirt	scalar	*Visual
May11/21 Jun23/23 Apr29/24	Appearance	scalar	*Visual
Jun	Odor	scalar	*Visual
Particle Trend	Emulsified Water	scalar	*Visual
	Free Water	scalar	*Visual
4μm ••••••••••••••••••••••••••••••••••••	FLUID PROPERT	IES	method
	Visc @ 40°C	cSt	ASTM D445
	SAMPLE IMAGES	\$	method
May11/21	Color		
Water (KF)			
Severe	Bottom		



NONE

NONE

NONE

NONE

MODER

NONE

NORM

HAZY

A 0.2%

NEG

NONE

NONE

NONE

NONE

A MODER

NONE

NORML

NORML

NEG

NEG

Ferrous Alloys Particle Count 491 520 122,880 30,720 7,680 20 8 Apr29/24 4406 (per 1 May17 1,920 6661 Non-ferrous Metals 480 20 120 1 E 10 30 un23/23 pr29/24 Mav11 Viscosity @ 40°C Acid Number 60 (B/1.20 HOX 0.96 Se 55 () 50 Abnorma E 0.72 45 · 은 0.48 Ahno Jan 0.24 40 Ser 0.00 PC 35 Apr29/24 un23/23 Jun23/23 May11 May11 : WearCheck USA - 501 Madison Ave., Cary, NC 27513

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

>0.05

45

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

NEG

NEG



SERVICE UNIFORM : 10 May 2024 2580 S RARITAN ST : 14 May 2024 ENGLEWOOD, CO : 14 May 2024 - Doug Bogart US 80110 Contact:

To discuss this sample report, contact Customer Service at 1-800-237-1369.

: KCPA012768

SS

Laboratory

Sample No.

Lab Number : 06176101

Unique Number : 11022154

\* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Test Package : IND 2 (Additional Tests: KF, PrtCount)

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

Received

Diagnosed

Tested

Certificate 12367

Contact/Location: ? ? - SERENG Page 2 of 2

T:

F: