

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



12000

10000

800 Water (ppm)

6000

4000

2000 0 Abn

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pitie 3k

Ok /Jav1

12000

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60

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-₹3 45 Base

4

35 May11/21

6

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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

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F: