

OIL ANALYSIS REPORT

Sample Rating Trend



KAESER 7919042

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

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is a moderate 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	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KC121109	KC124464	KC105638
Sample Date		Client Info		15 Nov 2023	13 Sep 2023	07 Feb 2023
Machine Age	hrs	Client Info		12472	11275	1243
Oil Age	hrs	Client Info		0	0	1243
Oil Changed		Client Info		N/A	N/A	Not Changd
Sample Status				ATTENTION	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	3	0	0
Chromium	ppm	ASTM D5185m		ر 1	0	0
Nickel	ppm	ASTM D5185m	>3	0	0	0
Titanium		ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m		0 <1	0	<1
	ppm					
Lead	ppm	ASTM D5185m	>10	0	0	0
Copper	ppm	ASTM D5185m		11	12	8
Tin	ppm	ASTM D5185m	>10	0	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	40
Molybdenum	ppm	ASTM D5185m		3	0	0
Manganese	ppm	ASTM D5185m		<1	<1	0
Magnesium	ppm	ASTM D5185m	90	23	<1	57
Calcium	ppm	ASTM D5185m	2	<1	0	1
Phosphorus	ppm	ASTM D5185m		0	0	0
Zinc	ppm	ASTM D5185m		27	12	17
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	0	<1	0
Sodium	ppm	ASTM D5185m		21	17	26
Potassium	ppm	ASTM D5185m	>20	0	5	2
Water	%	ASTM D6304	>0.05	0.008	▲ 0.125	0.018
ppm Water	ppm	ASTM D6304	>500	85	1250	185.8
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		3759	2932	9497
Particles >6µm		ASTM D7647	>1300	<u> </u>	325	▲ 3955
Particles >14µm		ASTM D7647	>80	e 106	17	4 03
Particles >21µm		ASTM D7647	>20	<mark> </mark> 25	5	 70
Particles >38µm		ASTM D7647	>4	1	0	4
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>/17/13	<mark> 19/18/14</mark>	19/16/11	▲ 20/19/16
FLUID DEGRADA		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.4	0.26	0.25	0.27
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OIL ANALYSIS REPORT

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ASTM D445

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NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

>0.05

46

White Metal

Yellow Metal

Precipitate

Silt

Debris

Odor

Sand/Dirt

Appearance

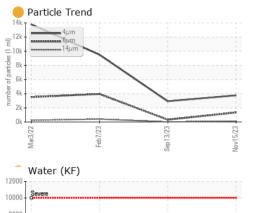
Free Water

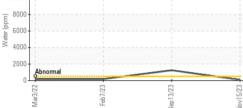
Visc @ 40°C

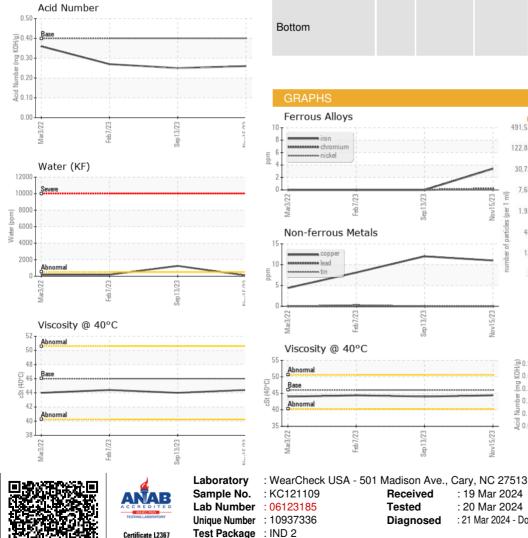
Emulsified Water

FLUID PROPERTIES

SAMPLE IMAGES







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

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

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1400

6661

Contact/Location: Service Manager - NATSYL

21

Sep13/23

3211 CENTENNIAL RD

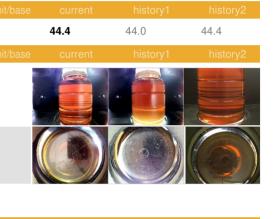
Contact: Service Manager

SYLVANIA, OH

US 43560

NATIONAL EXPOSURE TESTING

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NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

0.2%

NEG

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

NEG

NEG

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

Particle Count

Acid Number

Feb7/23

491.5 122,880

> 30,720 7,680

> > 480

120

30

(B) 0.50 HOX 0.40

Ē 0.30

ළි 0.20

2 0.10

0.00 P

Base

Nov15/23

Nov15/23

Nov15/23

: 19 Mar 2024

: 20 Mar 2024

: 21 Mar 2024 - Don Baldridge

eol

Sep 13/23

Sep 13/23

Received

Diagnosed

Tested

(per 1 1,920 NEG

NEG

Bottom

Mar3/77

15

0

55

50

40

35

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Mar2/77

B 45

Mar 3/77

Abnorma

GRAPHS Ferrous Alloys

icke

Non-ferrous Metals

Viscosity @ 40°C

Feb7/23

Feb7/23

Feb7/23

Color

^{* -} Denotes test methods that are outside of the ISO 17025 scope of accreditation.