

### **OIL ANALYSIS REPORT**

Machine Id **KAESER CSD 100ST 7092789 (S/N 1005)** Component Compressor

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

#### 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

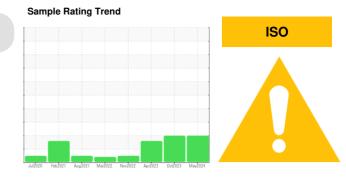
All component wear rates are normal.

#### Contamination

There is 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 acceptable for the time in service.



SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KCPA017646	KCPA009012	KCP53050
Sample Date		Client Info		22 May 2024	13 Oct 2023	27 Apr 2023
Machine Age	hrs	Client Info		11807	10423	9184
Oil Age	hrs	Client Info		8000	0	4000
Oil Changed		Client Info		Changed	N/A	Not Changd
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	0
Nickel	ppm	ASTM D5185m	>3	0	0	0
Titanium	ppm	ASTM D5185m	>3	<1	0	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>10	<1	2	<1
Lead	ppm	ASTM D5185m		0	0	0
Copper	ppm	ASTM D5185m		11	8	2
Tin	ppm	ASTM D5185m	>10	0	<1	0
Vanadium	ppm	ASTM D5185m	-	<1	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	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		<1	0	<1
Magnesium	ppm	ASTM D5185m	90	1	15	48
Calcium	ppm	ASTM D5185m	2	0	1	0
Phosphorus	ppm	ASTM D5185m		1	1	<1
Zinc	ppm	ASTM D5185m		13	28	3
Sulfur	ppm	ASTM D5185m		18057	17380	20875
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<1	<1	<1
Sodium	ppm	ASTM D5185m		2	8	16
Potassium	ppm	ASTM D5185m	>20	0	1	4
Water	%	ASTM D6304	>0.05	0.009	0.009	0.025
ppm Water	ppm	ASTM D6304		93	97.3	257.3
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		9742	8882	20100
Particles >6µm		ASTM D7647	>1300	<b>A</b> 3058	<u> </u>	<b>4</b> 479
Particles >14µm		ASTM D7647	>80	<b>A</b> 173	<b>3</b> 20	<b>1</b> 92
Particles >21µm		ASTM D7647	>20	<u> </u>	<u> </u>	<u> </u>
Particles >38µm		ASTM D7647	>4	<u> </u>	<b>5</b>	2
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>/17/13	<b>A</b> 20/19/15	▲ 20/19/15	▲ 22/19/15
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.4	0.34	0.34	0.38

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## **OIL ANALYSIS REPORT**

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limit/base

limit/base

>0.05

46

current

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

current

current

Particle Count

491 52 122,880

30,720

480

120

Mav22/24

(per 1 1,920 NEG

NEG

44.3

VISUAL

White Metal

Yellow Metal

Precipitate

Silt

Debris

Odor

Sand/Dirt

Appearance

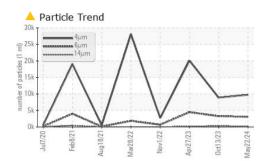
Free Water

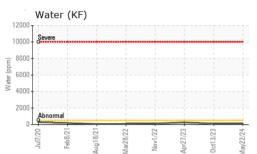
Visc @ 40°C

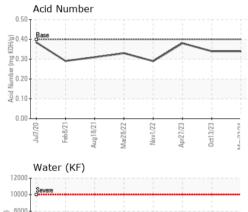
**Emulsified Water** 

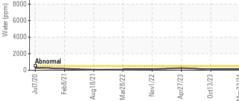
FLUID PROPERTIES

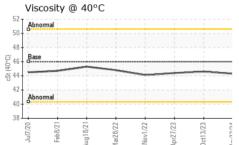
SAMPLE IMAGES



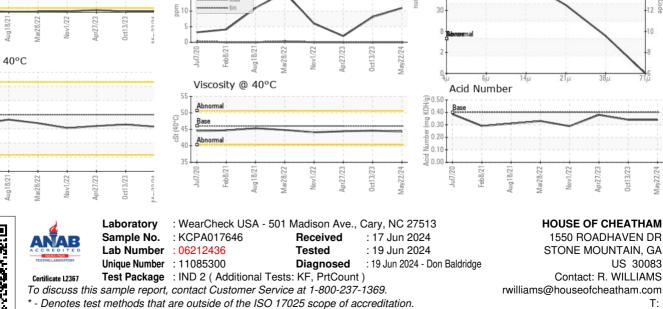








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Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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$\bigcirc$

history1

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

history

history1

NEG

NEG

44.6

history2

LIGHT

NONE

NONE

NONE

NONE

NONE

NORML

NORML

history2

history2

20 8

1406

6661

Aav/22/24

US 30083

T:

F:

NEG

NEG

44.4

Bottom

Color



20

1

GRAPHS Ferrous Alloys

Aug 18/21

Non-ferrous Metals

-h8/5

Mar28/77

CC/ Lvol

Dr77/73