

## **OIL ANALYSIS REPORT**

Sample Rating Trend

ISO

Machine Id

# KAESER ASD 25 2329152 (S/N 1137)

Component Compressor Fluid

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

#### 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 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		KCPA015074	KCP54530	KCP38283
Sample Date		Client Info		20 Mar 2024	02 Mar 2023	10 Feb 2022
Machine Age	hrs	Client Info		52427	48930	41804
Oil Age	hrs	Client Info		3497	3414	0
Oil Changed		Client Info		Changed	Not Changd	Changed
Sample Status				ATTENTION	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	<1	<1	<1
Chromium	ppm	ASTM D5185m	>10	<1	0	0
Nickel	ppm	ASTM D5185m	>3	<1	0	0
Titanium	ppm	ASTM D5185m	>3	<1	0	0
Silver	ppm	ASTM D5185m	>2	0	<1	0
Aluminum	ppm	ASTM D5185m	>10	2	<1	0
Lead	ppm	ASTM D5185m	>10	<1	0	0
Copper	ppm	ASTM D5185m		15	6	6
Tin	ppm	ASTM D5185m		1	0	0
Antimony	ppm	ASTM D5185m	210			0
Vanadium	ppm	ASTM D5185m		<1	0	0
				<1	0	0
Cadmium	ppm	ASTM D5185m				
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	0	<1
Barium	ppm	ASTM D5185m	90	0	0	0
Molybdenum	ppm	ASTM D5185m	0	<1	0	0
Manganese	ppm	ASTM D5185m		<1	0	0
Magnesium	ppm	ASTM D5185m	100	1	39	44
Calcium	ppm	ASTM D5185m	0	3	<1	0
Phosphorus	ppm	ASTM D5185m	0	1	5	14
Zinc	ppm	ASTM D5185m	0	0	23	23
Sulfur	ppm	ASTM D5185m	23500	22268	20989	16227
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<1	<1	<1
Sodium	ppm	ASTM D5185m		0	20	22
Potassium	ppm	ASTM D5185m	>20	1	6	7
Water	%	ASTM D6304	>0.05	0.008	0.010	0.021
ppm Water	ppm	ASTM D6304	>500	88	104.5	213.0
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		6842	17350	9172
Particles >6µm		ASTM D7647	>1300	<mark> </mark> 1872	▲ 6896	▲ 3006
Particles >14µm		ASTM D7647	>80	<b>154</b>	<b>4</b> 28	<b>A</b> 233
Particles >21µm		ASTM D7647	>20	<b>4</b> 1	<u> </u>	▲ 58
Particles >38µm		ASTM D7647	>4	0	0	0 10
Particles >71µm		ASTM D7647	>3	0	0	2
Oil Cleanliness		ISO 4406 (c)	>/17/13	<b>20/18/14</b>	▲ 21/20/16	▲ 19/15
FLUID DEGRADA	TION	method	limit/base	current	history1	history2

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Contact/Location: D. DORFINGER - HUTNEW



Built for a lifetime

Particle

Ê 40

왕 30k

10 20

E 10

12000

10000 800 (maa)

1.20

(B/H0) Ê0.7 <u>لة</u> 0.48 Pio 0.24

0.00

10000

4000

200

60

55

() 50 0+

3 45 Base

40

35

S

Abnormal

Se

muu 600 Water (

Acid Number

Water (KF)

Abnormal

Ok

# **OIL ANALYSIS REPORT**

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

NEG

NEG

51.2

Particle Trend	VISUAL			
4μm 6μm	White Metal	scalar	*Visual	NONE
	Yellow Metal	scalar	*Visual	NONE
	Precipitate	scalar	*Visual	NONE
	Silt	scalar	*Visual	NONE
	Debris	scalar	*Visual	NONE
Procession and a second and a	Sand/Dirt	scalar	*Visual	NONE
Mar/9/19 Jan 8/21 Feb 10/22 Mar20/24	Appearance	scalar	*Visual	NORML
Mar Ja Mar	Odor	scalar	*Visual	NORML
Water (KF)	Emulsified Water	scalar	*Visual	>0.05
	Free Water	scalar	*Visual	
- Severe	FLUID PROPERT	IES	method	limit/bas
	Visc @ 40°C	cSt	ASTM D445	45
)-	SAMPLE IMAGES		method	limit/bas
Abnormal 6 17 27 55 44	Calar			
May0/19 Jan8.21 Feb10/22 Mar2.023	Color			



NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

NEG

NEG

46.2

NONE

NONE

NONE

NONE

LIGHT

NONE

NORML

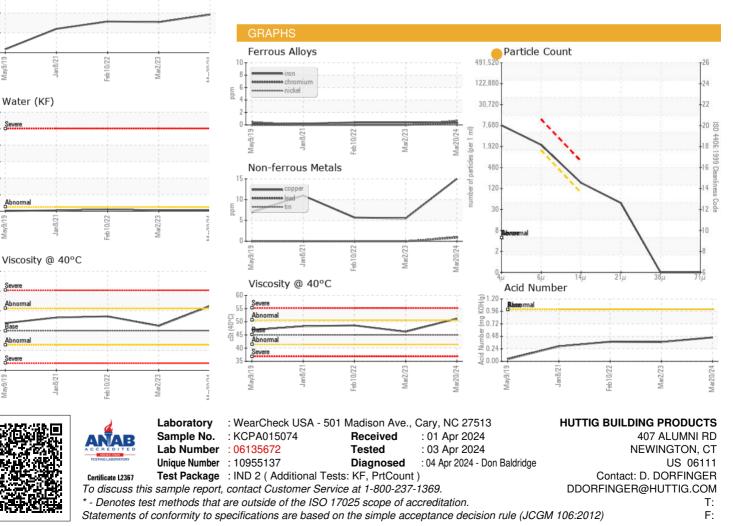
NORML

NEG

NEG

48.6

Bottom



Contact/Location: D. DORFINGER - HUTNEW