

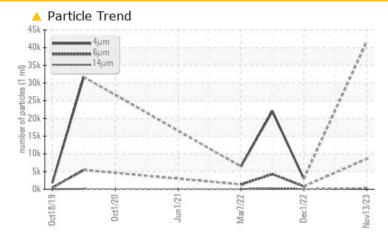
# **PROBLEM SUMMARY**

# KAESER BSD 50 6474473 (S/N 1088)

**Compressor** Fluid

# KAESER SIGMA (OEM) S-460 (--- GAL)

# COMPONENT CONDITION SUMMARY



# RECOMMENDATION

No corrective action is recommended at this time. The filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

# Sample Rating Trend ISO

PROBLEMATIC TEST RESULTS							
Sample Status			ABNORMAL	ABNORMAL	NORMAL		
Particles >6µm	ASTM D7647	>1300	<u> </u>		814		
Particles >14µm	ASTM D7647	>80	<b>A</b> 348		68		
Particles >21µm	ASTM D7647	>20	<u> </u>		34		
Oil Cleanliness	ISO 4406 (c)	>/17/13	<b>A</b> 23/20/16		19/17/13		

Customer Id: EASRAL Sample No.: KCPA009003 Lab Number: 06011512 Test Package: IND 2



To manage this report scan the QR code

*To discuss the diagnosis or test data:* Don Baldridge +1 <u>don.b505@comcast.net</u>

*To change component or sample information:* Customer Service +1 1-800-237-1369 <u>customerservice@wearcheck.com</u> There are no recommended actions for this sample.

## **HISTORICAL DIAGNOSIS**

### 14 Jun 2023 Diag: Don Baldridge



The filter change at the time of sampling has been noted. We were unable to perform a particle count due to a high concentration of particles present in this sample. We advise that you stop the unit and follow the water drainoff procedure for this component. We recommend an early resample in 500 hours to monitor this condition.All component wear rates are normal. Moderate concentration of visible dirt/debris present in the oil. There is a light concentration of water present in the oil. The AN level is acceptable for this fluid.





Resample at the next service interval to monitor.All component wear rates are normal. The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view repor

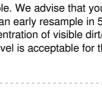
view report



22 Jun 2022 Diag: Don Baldridge

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.All component wear rates are normal. There is a high amount of particulates present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.







# **OIL ANALYSIS REPORT**

### Machine Id KAESER BSD 50 6474473 (S/N 1088) Component

Compressor Fluid

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

# DIAGNOSIS

# Recommendation

No corrective action is recommended at this time. The filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

# Wear

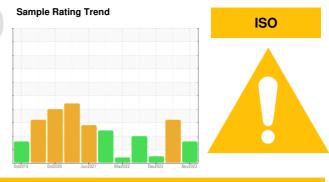
All component wear rates are normal.

# 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 suitable for further service.

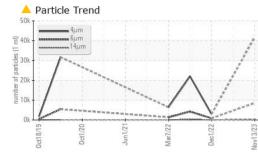


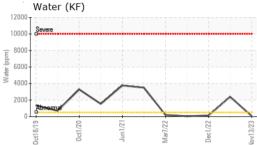
SAMPLE INFORM	<b>MATION</b>	method	limit/base	current	history1	history2
Sample Number		Client Info		KCPA009003	KCPA005464	KCP49425
Sample Date		Client Info		13 Nov 2023	14 Jun 2023	01 Dec 2022
Machine Age	hrs	Client Info		17221	16454	14150
Oil Age	hrs	Client Info		0	0	1635
Oil Changed		Client Info		N/A	N/A	Not Changd
Sample Status				ABNORMAL	ABNORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	<1	0	<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	0	0
Aluminum	ppm	ASTM D5185m	>10	<1	0	<1
Lead	ppm	ASTM D5185m	>10	<1	0	0
Copper	ppm	ASTM D5185m	>50	10	12	9
Tin	ppm	ASTM D5185m	>10	<1	0	0
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m	90	0	5	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		<1	0	0
Magnesium	ppm	ASTM D5185m	90	0	6	20
Calcium	ppm	ASTM D5185m	2	0	<1	3
Phosphorus	ppm	ASTM D5185m		0	1	8
Zinc	ppm	ASTM D5185m		0	56	74
Sulfur	ppm	ASTM D5185m		18133	19938	21451
CONTAMINANTS	5	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	1	0	<1
Sodium	ppm	ASTM D5185m		13	0	20
Potassium	ppm	ASTM D5185m	>20	3	2	5
Water	%	ASTM D6304	>0.05	0.005	▲ 0.239	0.013
ppm Water	ppm	ASTM D6304	>500	55.5	▲ 2393.3	132.5
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		41676		2962
Particles >6µm		ASTM D7647	>1300	<u> </u>		814
Particles >14 $\mu$ m		ASTM D7647	>80	<b>A</b> 348		68
Particles >21µm		ASTM D7647	>20	<u> </u>		34
Particles >38µm		ASTM D7647	>4	3		5
Particles >71µm		ASTM D7647	>3	0		0
Oil Cleanliness		ISO 4406 (c)	>/17/13	<b>A</b> 23/20/16		19/17/13
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.4	0.29	0.41	0.36

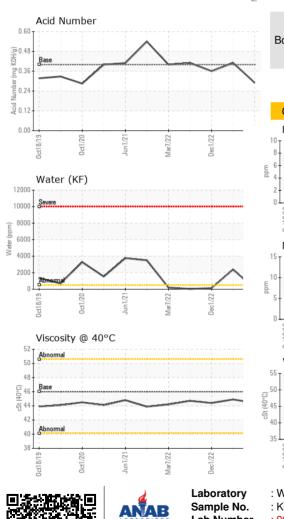


Built for a lifetime.

# **OIL ANALYSIS REPORT**



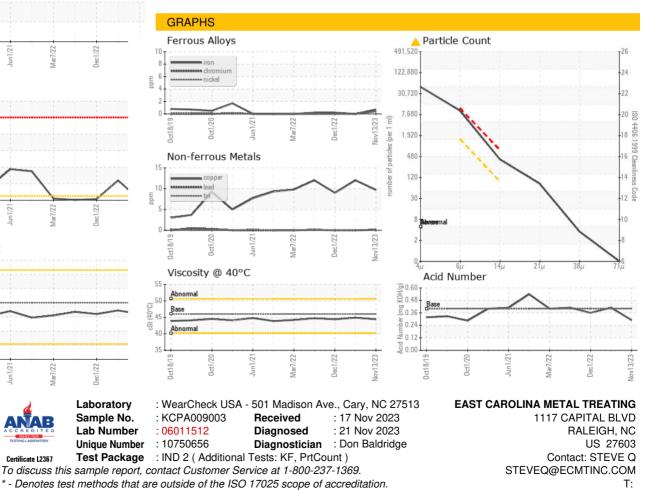




VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	🔺 MODER	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	🔺 HAZY	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.05	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	TIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	46	44.4	44.9	44.4
SAMPLE IMAGES	S	method	limit/base	current	history1	history2
Color						



Bottom



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

Contact/Location: STEVE Q - EASRAL

F: