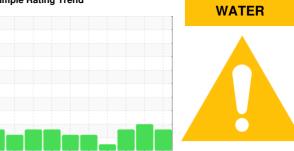


# **OIL ANALYSIS REPORT**

Sample Rating Trend



# KAESER BSD 50 4387134 (S/N 1138)

Compressor

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

## **DIAGNOSIS**

## Recommendation

The filter change at the time of sampling has been noted. We advise that you stop the unit and follow the water drain-off procedure for this component. We recommend an early resample in 500 hours to monitor this condition.

#### Wear

All component wear rates are normal.

#### Contamination

There is a light concentration of water present in the oil. The amount and size of particulates present in the system are acceptable.

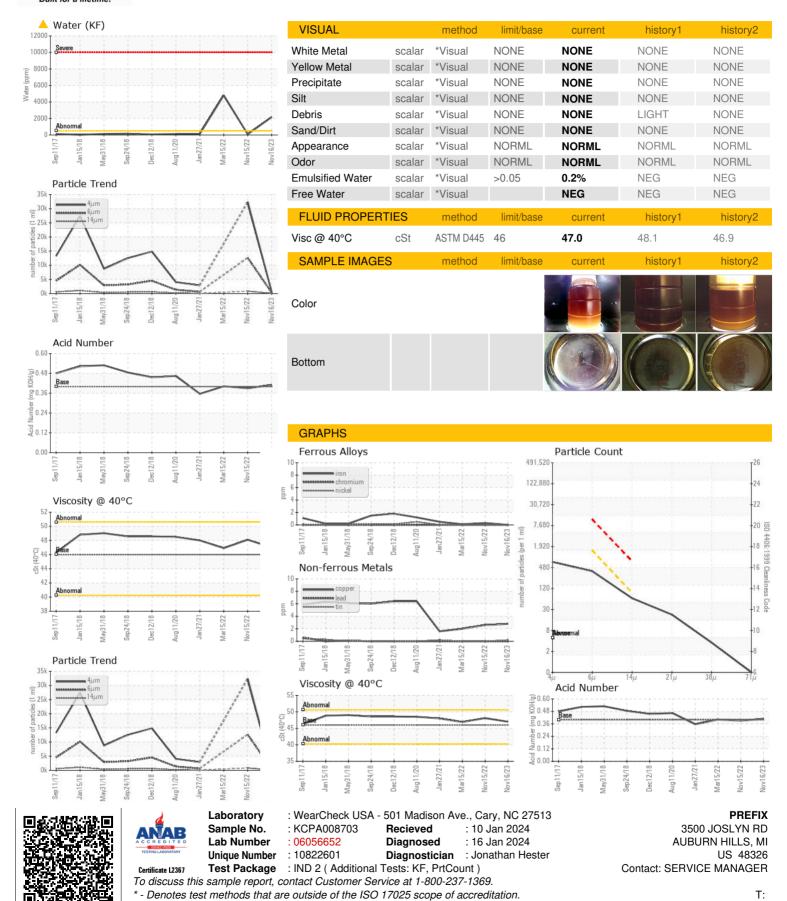
## **Fluid Condition**

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Smp2017 Jun2018 Mmy2018 Smp2018 Dmc2018 Aug2020 Jun2021 Mmz0022 Nov2022 Nov2023						
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KCPA008703	KCP47336D	KCP38307
Sample Date		Client Info		16 Nov 2023	15 Nov 2022	15 Mar 2022
Machine Age	hrs	Client Info		29417	1018	28327
Oil Age	hrs	Client Info		0	1407	390
Oil Changed		Client Info		N/A	Not Changd	Not Changd
Sample Status				ABNORMAL	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	0	<1
Aluminum	ppm	ASTM D5185m	>10	0	0	<1
Lead	ppm	ASTM D5185m	>10	0	0	0
Copper	ppm	ASTM D5185m	>50	3	3	2
Tin	ppm	ASTM D5185m	>10	<1	0	0
Antimony	ppm	ASTM D5185m				
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	<1
Barium	ppm	ASTM D5185m	90	40	24	53
Molybdenum	ppm	ASTM D5185m	30	0	0	0
Manganese	ppm	ASTM D5185m		<1	0	0
Magnesium		ASTM D5185m	90	58	64	78
Calcium	ppm	ASTM D5185m		2	1	2
	ppm	ASTM D5185m	۷	4	6	2
Phosphorus Zinc	ppm	ASTM D5185m		0	10	3
Zinc Sulfur	ppm	ASTM D5185m		18986	19275	17077
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon		ASTM D5185m	>25	<1	0	0
Sodium	ppm	ASTM D5185m	>25	4	15	10
Potassium	ppm	ASTM D5185m	- 20	3	6	<1
	ppm			_		
Water	% nnm	ASTM D6304 ASTM D6304	>0.05	▲ 0.217 ▲ 2170	0.008 87.1	△ 0.481 △ 4810
ppm Water	ppm			<u>^</u> 2170		
FLUID CLEANLIN	NESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	1000	609	32359	
Particles >6µm		ASTM D7647		332	12644	
Particles >14µm		ASTM D7647	>80	56	▲ 807	
Particles >21µm		ASTM D7647		19	<u>121</u>	
Particles >38µm		ASTM D7647	>4	3	<u>4</u>	
Particles >71µm		ASTM D7647		0	0	
Oil Cleanliness		ISO 4406 (c)	>/17/13	16/16/13	<u>22/21/17</u>	
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Acid Number (AN)	ma KOH/a	<b>ASTM D8045</b>	0.4	0.41	0.39	0.402



## **OIL ANALYSIS REPORT**



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

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