

# **OIL ANALYSIS REPORT**

Sample Rating Trend



# KAESER AIRCENTER SX 5 5338445 (S/N 1441)

Compressor

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

## **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 suitable for further service.

		Oct2017 Apr2	018 Mar2019 Oct2019 Apr2	020 Dec2020 Aug2021 Apr2022 Apr2	023 Mar2024	
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KCPA015051	KCP53005	KCP45481
Sample Date		Client Info		26 Mar 2024	25 Apr 2023	28 Apr 2022
Machine Age	hrs	Client Info		57267	53408	45163
Oil Age	hrs	Client Info		4000	8000	3000
Oil Changed		Client Info		Changed	Changed	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	<1	0
Nickel	ppm	ASTM D5185m	>3	0	6	0
Titanium	ppm	ASTM D5185m	>3	0	<1	0
Silver	ppm	ASTM D5185m	>2	0	<1	<1
Aluminum	ppm	ASTM D5185m	>10	0	0	<1
Lead	ppm	ASTM D5185m	>10	0	0	0
Copper	ppm	ASTM D5185m	>50	11	<1	4
Tin	ppm	ASTM D5185m	>10	0	0	0
Antimony	ppm	ASTM D5185m				
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	0	1
Barium	ppm	ASTM D5185m	90	<1	0	22
Molybdenum	ppm	ASTM D5185m	0	0	0	0
Manganese	ppm	ASTM D5185m		0	<1	0
Magnesium	ppm	ASTM D5185m	100	7	10	32
Calcium	ppm	ASTM D5185m	0	0	<1	<1
Phosphorus	ppm	ASTM D5185m	0	0	1	2
Zinc	ppm	ASTM D5185m	0	24	0	12
Sulfur	ppm	ASTM D5185m	23500	19445	141	14836
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	0	0	0
Sodium	ppm	ASTM D5185m		3	<1	8
Potassium	ppm	ASTM D5185m	>20	0	13	0
Water	%	ASTM D6304	>0.05	0.036	0.012	0.015
ppm Water	ppm	ASTM D6304	>500	368	127.4	159.4
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4μm		ASTM D7647		21757	15751	
Particles >6µm		ASTM D7647		<u>▲</u> 5648	<u>▲</u> 6048	
Particles >14μm		ASTM D7647	>80	▲ 308	<u></u> 354	
Particles >21µm		ASTM D7647	>20	<u>^</u> 76	<b>△</b> 62	
Particles >38µm		ASTM D7647	>4	1	4	
Particles >71µm		ASTM D7647	>3	0	0	
Oil Cleanliness		ISO 4406 (c)	>/17/13	<u>22/20/15</u>	<u>\$\text{\Delta}\$ 21/20/16</u>	
FLUID DEGRADA	TION	method	limit/base	current	history1	history2

0.40

0.40



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