

## **OIL ANALYSIS REPOR**

Sample Rating Trend

ISO

# Machine Id **4991880 (S/N 1015)**

Component

Compressor

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

#### **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 silt (particulates < 14 microns in size) present in the oil.

#### **Fluid Condition**

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

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	Sep 2021	0ct2021	Jun2022	Jul2023	Feb 2024			
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SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KCPA011636	KCPA003257	KCP40389
Sample Date		Client Info		19 Feb 2024	17 Jul 2023	24 Jun 2022
Machine Age	hrs	Client Info		82054	0	67649
Oil Age	hrs	Client Info		0	0	3000
Oil Changed		Client Info		N/A	N/A	Changed
Sample Status				ABNORMAL	NORMAL	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	<1	0
Aluminum	ppm	ASTM D5185m	>10	0	<1	1
Lead	ppm	ASTM D5185m	>10	0	0	0
Copper	ppm	ASTM D5185m	>50	4	8	8
Tin	ppm	ASTM D5185m	>10	0	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	0	0
Barium	ppm	ASTM D5185m	90	0	0	0
Molybdenum	ppm	ASTM D5185m	0	0	0	0
Manganese	ppm	ASTM D5185m		0	<1	0
Magnesium	ppm	ASTM D5185m	100	0	1	2
Calcium	ppm	ASTM D5185m	0	0	<1	0
Phosphorus	ppm	ASTM D5185m	0	0	1	13
Zinc	ppm	ASTM D5185m	0	63	30	88
Sulfur	ppm	ASTM D5185m	23500	16072	22071	20884
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	0	<1	<1
Sodium	ppm	ASTM D5185m		3	<1	1
Potassium	ppm	ASTM D5185m	>20	0	<1	0
Water	%	ASTM D6304	>0.05	0.013	0.013	0.014
ppm Water	ppm	ASTM D6304	>500	134	139.5	147.3
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4μm		ASTM D7647		20374	691	10249
Particles >6µm		ASTM D7647		<u> </u>	196	<b>△</b> 3690
Particles >14μm		ASTM D7647	>80	36	21	<b>△</b> 611
Particles >21µm		ASTM D7647	>20	5	5	<u>^</u> 209
Particles >38µm		ASTM D7647	>4	0	0	<u> </u>
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>/17/13	<u>22/19/12</u>	17/15/12	<u>^</u> 21/19/16
FLUID DEGRADA	TION	method	limit/base	current	history1	history2

Acid Number (AN)

0.51

0.46



### **OIL ANALYSIS REPORT**

