

### **OIL ANALYSIS REPORT**

#### Sample Rating Trend



# KAESER SM 11 1918533 (S/N 1476)

Compressor

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

#### DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

#### Contamination

The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.

#### Fluid Condition

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

		Feb201	9 Mar2021	0ct2022		
SAMPLE INFORM	ΛΑΤΙΟΝ	method				history2
Sample Number		Client Info		KC125945	KC106229	KC89947
Sample Date		Client Info		18 Oct 2023	11 Oct 2022	19 Mar 2021
Machine Age	hrs	Client Info		62038	59194	54732
Oil Age	hrs	Client Info		0	5172	7957
Oil Changed		Client Info		N/A	N/A	Changed
Sample Status				NORMAL	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	0	0	3
Chromium	ppm	ASTM D5185m	>10	0	0	0
Nickel	ppm	ASTM D5185m	>3	0	0	<1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>10	0	0	0
Lead		ASTM D5185m	>10	0	0	0
	ppm	ASTM D5185m		17	10	16
Copper	ppm	ASTM D5185m				
Tin	ppm		>10	0	0	0
Antimony	ppm	ASTM D5185m				0
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	0	0	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		0	0	<1
Magnesium	ppm	ASTM D5185m	90	<1	0	4
Calcium	ppm	ASTM D5185m	2	<1	0	0
Phosphorus	ppm	ASTM D5185m		<1	2	1
Zinc	ppm	ASTM D5185m		0	7	68
CONTAMINANTS	3	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<1	0	<1
Sodium	ppm	ASTM D5185m		0	0	<1
Potassium	ppm	ASTM D5185m	>20	<1	0	<1
Water	%	ASTM D6304	>0.05	0.005	0.005	0.008
ppm Water	ppm	ASTM D6304	>500	57.8	55.0	88.4
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		596	7368	
Particles >6µm		ASTM D7647	>1300	123	<u> </u>	
Particles >14µm		ASTM D7647	>80	12	<b>4</b> 342	
Particles >21µm		ASTM D7647	>20	6	<b>1</b> 20	
Particles >38µm		ASTM D7647		0	<b>1</b> 4	
Particles >71µm		ASTM D7647		0	1	
Oil Cleanliness		ISO 4406 (c)		16/14/11	· 20/18/16	
FLUID DEGRADA	TION_	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.4	0.35	0.33	0.295



1200

1000

800 Water (ppm)

600

400

2000

20 (1 ml)

of particles (

12000

mhai

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