

# **OIL ANALYSIS REPORT**

SAMPLE INFORMATION

ISO

# 7588599 (S/N 1767)

Component

Compressor

KAESER SIGMA (OEM) M-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.

Feb2022	Aug2023	Jan 2024

Sample Number		Client Info		KCPA008531	KCPA005107	KCP48669
Sample Date		Client Info		23 Jan 2024	14 Aug 2023	08 Feb 2022
Machine Age	hrs	Client Info		8325	6698	2619
Oil Age	hrs	Client Info		0	0	2619
Oil Changed	0	Client Info		N/A	N/A	Changed
Sample Status		Oliotic IIIIo		ABNORMAL	ATTENTION	ATTENTION
			11 11 11			
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	0	<1	2
Chromium	ppm	ASTM D5185m	>10	0	0	0
Nickel	ppm	ASTM D5185m	>3	0	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	0	0	0
Copper	ppm	ASTM D5185m	>50	2	2	2
Tin	ppm	ASTM D5185m	>10	<1	0	0
Antimony	ppm	ASTM D5185m				0
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	ourront	hiotonyl	hiotory
				current	history1	history2
Boron	ppm	ASTM D5185m	0	0	0	0
Barium	ppm	ASTM D5185m	90	36	36	5
Molybdenum	ppm	ASTM D5185m	0	0	0	0
Manganese	ppm	ASTM D5185m		<1	0	<1
Magnesium	ppm	ASTM D5185m	100	80	63	77
Calcium	ppm	ASTM D5185m	0	0	<1	0
Phosphorus	ppm	ASTM D5185m	0	0	1	15
Zinc	ppm	ASTM D5185m	0	0	4	<1
Sulfur	ppm	ASTM D5185m	23500	16936	21036	15700
CONTAMINANTS	3	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<1	<1	<1
Sodium	ppm	ASTM D5185m		12	10	11
Potassium	ppm	ASTM D5185m	>20	3	5	3
Water	%	ASTM D6304	>0.05	0.011	0.034	0.007
ppm Water	ppm	ASTM D6304	>500	115	346.3	79.2
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	minu baoo	8924	5419	
			1000			6375
Particles >6µm		ASTM D7647 ASTM D7647	>1300	▲ 3751 ▲ 421	▲ 2211 ▲ 100	▲ 1547 40
Particles >14µm			>80	▲ 431 ▲ 88		
Particles >21µm		ASTM D7647	>20		14	8
Particles >38µm		ASTM D7647	>4	2	0	1
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>/17/13	<u>^</u> 20/19/16	▲ 20/18/14	▲ 18/12
FLUID DEGRADA	NOITA	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	0.36	0.42	0.34



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\* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

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

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