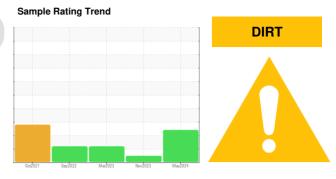


# **OIL ANALYSIS REPORT**

# [73558974] **KAESER 4738396**

Component Compressor

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



## **DIAGNOSIS**

#### Recommendation

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 silt (particulates < 14 microns in size) present in the oil. Elemental level of silicon (Si) above normal indicating ingress of seal material.

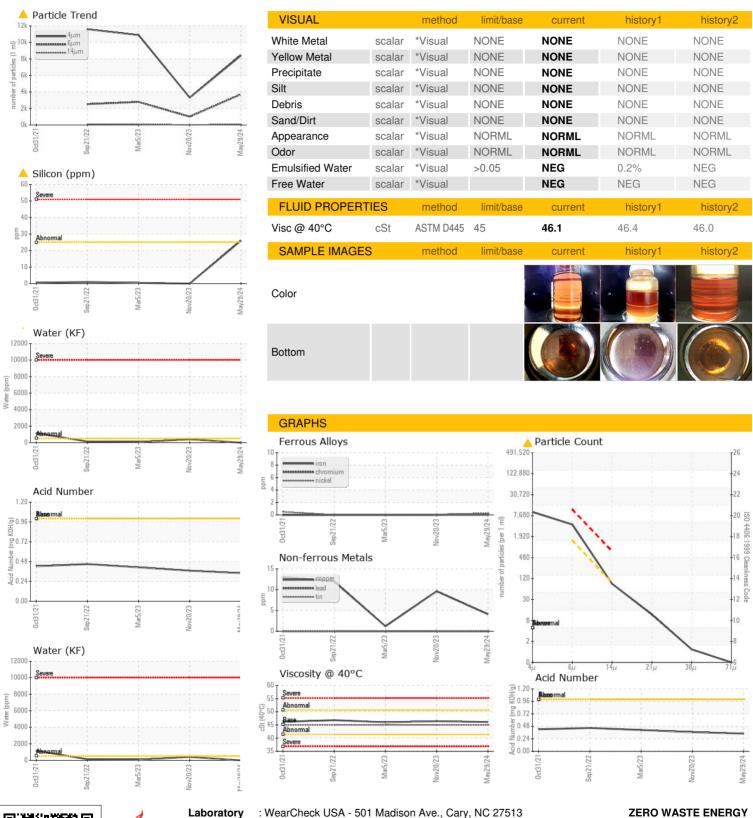
#### **Fluid Condition**

The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info	minu bass	KCPA017882	KCPA007691	KCP55979
Sample Date		Client Info		29 May 2024	20 Nov 2023	05 Mar 2023
Machine Age	hrs	Client Info		64536	59958	53427
Oil Age	hrs	Client Info		04330	0	1000
Oil Changed	1110	Client Info		Changed	N/A	Changed
Sample Status				ABNORMAL	NORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	0	0	0
Chromium	ppm	ASTM D5185m	>10	<1	0	0
Nickel	ppm	ASTM D5185m	>3	0	0	0
Titanium	ppm	ASTM D5185m	>3	<1	0	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>10	2	0	<1
Lead	ppm	ASTM D5185m	>10	0	0	0
Copper	ppm	ASTM D5185m	>50	4	10	1
Tin	ppm	ASTM D5185m	>10	<1	0	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	0	0
Barium	ppm	ASTM D5185m	90	0	0	0
Molybdenum	ppm	ASTM D5185m	0	0	0	0
Manganese	ppm	ASTM D5185m		0	0	<1
Magnesium	ppm	ASTM D5185m	100	10	0	19
Calcium	ppm	ASTM D5185m	0	0	0	0
Phosphorus	ppm	ASTM D5185m	0	6	0	<1
Zinc	ppm	ASTM D5185m	0	18	17	20
Sulfur	ppm	ASTM D5185m	23500	20734	18601	17824
CONTAMINANTS	3	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<b>^</b> 26	0	<1
Sodium	ppm	ASTM D5185m		2	<1	5
Potassium	ppm	ASTM D5185m	>20	1	0	0
Water	%	ASTM D6304	>0.05	0.00	0.040	0.007
ppm Water	ppm	ASTM D6304	>500	0	400	78.8
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		8417	3304	10888
Particles >6µm		ASTM D7647	>1300	<u>▲</u> 3724	1009	<u>▲</u> 2790
Particles >14µm		ASTM D7647	>80	75	11	<u></u> 81
Particles >21µm		ASTM D7647	>20	10	1	14
Particles >38µm		ASTM D7647	>4	1	0	1
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>/17/13	<u>^</u> 20/19/13	19/17/11	<u>^</u> 21/19/14
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	0.34	0.37	0.41



## OIL ANALYSIS REPORT







Certificate 12367

Sample No. Lab Number

: 06203400 Unique Number : 11070861

: KCPA017882

Received **Tested** 

: 11 Jun 2024 Diagnosed

: 11 Jun 2024 - Angela Borella

: 07 Jun 2024

Test Package : IND 2 ( Additional Tests: KF, PrtCount ) To discuss this sample report, contact Customer Service at 1-800-237-1369.  $^st$  - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

SAN JOSE, CA US 95134 Contact: A. BARRAZA

685 LOS ESTEROS RD

abarraza@zwedc.com T:

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) Report Id: ZERSANCA [WUSCAR] 06203400 (Generated: 06/11/2024 18:52:32) Rev: 1

Contact/Location: A. BARRAZA - ZERSANCA

F: