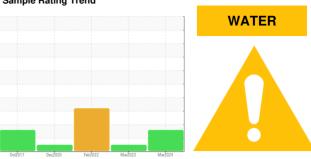


# **OIL ANALYSIS REPORT**

Sample Rating Trend



Machine Id

# KAESER SM 10 5325852 (S/N 1050)

Compressor

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

### **DIAGNOSIS**

### Recommendation

Oil and filter change at the time of sampling has been noted. We recommend an early resample in 500 hours to monitor this condition.

All component wear rates are normal.

### Contamination

There is a light concentration of water present in the oil. The amount and size of particulates present in the system are acceptable.

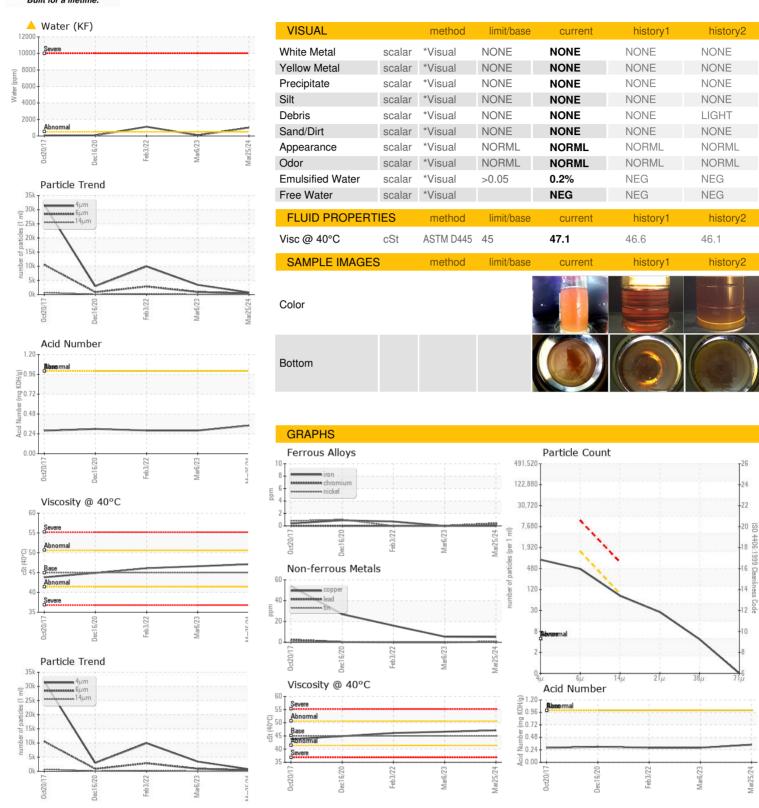
### **Fluid Condition**

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

		0ct2017	Dec2020	Feb 2022 Mar 2023	Mar2024	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KCPA015826	KCPA000236	KCP41250
Sample Date		Client Info		25 Mar 2024	06 Mar 2023	03 Feb 2022
Machine Age	hrs	Client Info		13963	11150	8986
Oil Age	hrs	Client Info		2000	0	2202
Oil Changed		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	<1
Chromium	ppm	ASTM D5185m	>10	<1	0	0
Nickel	ppm	ASTM D5185m	>3	<1	0	0
Titanium	ppm	ASTM D5185m	>3	<1	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>10	2	0	0
Lead	ppm	ASTM D5185m	>10	<1	0	0
Copper	ppm	ASTM D5185m	>50	5	5	16
Tin	ppm	ASTM D5185m	>10	<1	0	0
Antimony	ppm	ASTM D5185m				0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	0	22
Barium	ppm	ASTM D5185m	90	0	0	0
Molybdenum	ppm	ASTM D5185m	0	<1	0	0
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	100	18	18	8
Calcium	ppm	ASTM D5185m	0	4	3	0
Phosphorus	ppm	ASTM D5185m	0	4	4	2
Zinc	ppm	ASTM D5185m	0	48	92	128
Sulfur	ppm	ASTM D5185m	23500	23914	19692	18263
CONTAMINANTS	1	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<1	2	<1
Sodium	ppm	ASTM D5185m		5	5	4
Potassium	ppm	ASTM D5185m	>20	1	0	0
Water	%	ASTM D6304	>0.05	<b>△</b> 0.102	0.008	△ 0.112
ppm Water	ppm	ASTM D6304	>500	<b>1020</b>	86.9	▲ 1123.6
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		757	3417	9915
Particles >6µm		ASTM D7647	>1300	412	924	<u>^</u> 2839
Particles >14µm		ASTM D7647	>80	70	62	<u>^</u> 248
Particles >21µm		ASTM D7647	>20	24	19	<u>^</u> 86
Particles >38µm		ASTM D7647	>4	4	1	<u> 5</u>
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>/17/13	17/16/13	19/17/13	<b>△</b> 19/15
FLUID DEGRADA	TION	method	limit/base	current	history1	history2



## OIL ANALYSIS REPORT







Certificate 12367

Laboratory

Sample No. Lab Number

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : 06148072

: KCPA015826

Unique Number : 10978150

**Tested** Diagnosed Test Package : IND 2 ( Additional Tests: KF, PrtCount )

Received

: 12 Apr 2024

: 18 Apr 2024

: 18 Apr 2024 - Jonathan Hester

To discuss this sample report, contact Customer Service at 1-800-237-1369.

\* - 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)

**PENSKE** 

185 AIRPARK INDUSTRIAL RD ALABASTER, AL US 35007

Contact: CHARLES MASSIE CHARLES.MASSIE@PENSKE.COM

T:

Report Id: PENALA [WUSCAR] 06148072 (Generated: 04/18/2024 14:30:53) Rev: 1

Contact/Location: CHARLES MASSIE - PENALA

F: