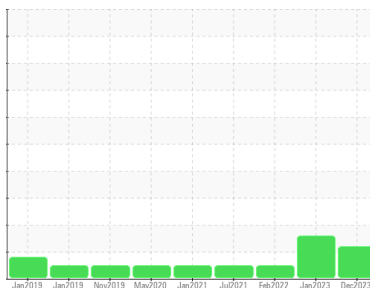


# OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Machine Id  
**KAESER AIRCENTER SM 10 6163597 (S/N 1045)**

Component  
**Compressor**

Fluid  
**KAESER SIGMA (OEM) S-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 moderate 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.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			<b>KC127389</b>	KC101999	KC104416
Sample Date	Client Info			<b>28 Dec 2023</b>	27 Jan 2023	22 Feb 2022
Machine Age	hrs	Client Info		<b>20614</b>	18500	14242
Oil Age	hrs	Client Info		<b>0</b>	2877	2070
Oil Changed	Client Info			<b>N/A</b>	Changed	Not Changed
Sample Status				<b>ATTENTION</b>	ATTENTION	NORMAL

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	<b>&lt;1</b>	<1	<1
Chromium	ppm	ASTM D5185m	>10	<b>&lt;1</b>	0	0
Nickel	ppm	ASTM D5185m	>3	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m	>3	<b>0</b>	0	0
Silver	ppm	ASTM D5185m	>2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>10	<b>2</b>	0	<1
Lead	ppm	ASTM D5185m	>10	<b>0</b>	0	0
Copper	ppm	ASTM D5185m	>50	<b>9</b>	7	5
Tin	ppm	ASTM D5185m	>10	<b>0</b>	0	0
Antimony	ppm	ASTM D5185m		<b>---</b>	---	0
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
Cadmium	ppm	ASTM D5185m		<b>0</b>	0	0

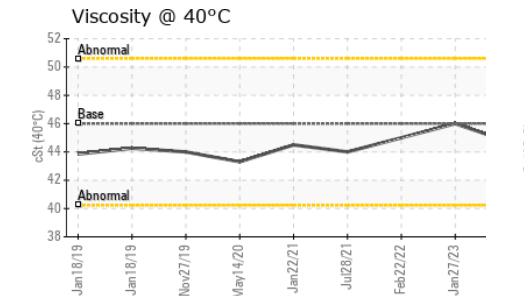
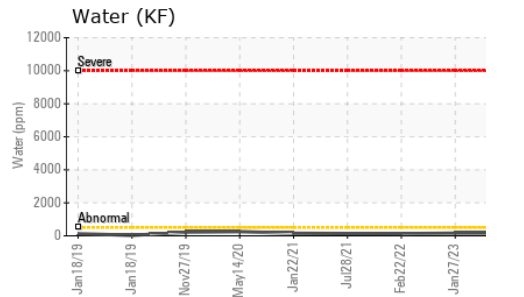
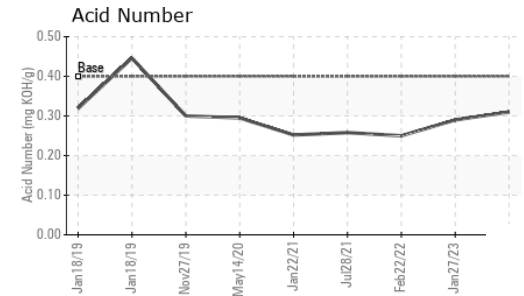
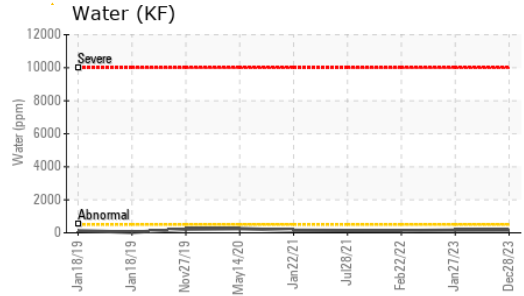
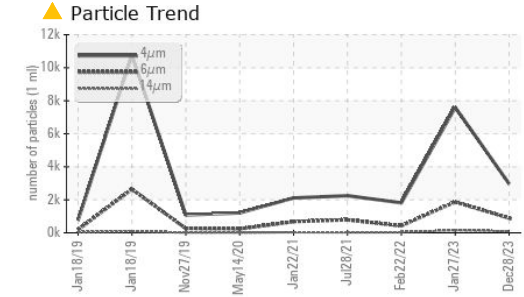
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		<b>0</b>	0	0
Barium	ppm	ASTM D5185m	90	<b>0</b>	9	0
Molybdenum	ppm	ASTM D5185m		<b>0</b>	0	0
Manganese	ppm	ASTM D5185m		<b>0</b>	0	0
Magnesium	ppm	ASTM D5185m	90	<b>46</b>	38	43
Calcium	ppm	ASTM D5185m	2	<b>&lt;1</b>	1	0
Phosphorus	ppm	ASTM D5185m		<b>38</b>	2	4
Zinc	ppm	ASTM D5185m		<b>0</b>	6	0

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<b>&lt;1</b>	<1	<1
Sodium	ppm	ASTM D5185m		<b>6</b>	8	20
Potassium	ppm	ASTM D5185m	>20	<b>11</b>	2	2
Water	%	ASTM D6304	>0.05	<b>0.016</b>	0.016	0.013
ppm Water	ppm	ASTM D6304	>500	<b>164</b>	160.0	130.3

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		<b>2976</b>	7595	1816
Particles >6µm		ASTM D7647	>1300	<b>894</b>	▲ 1870	422
Particles >14µm		ASTM D7647	>80	▲ <b>87</b>	▲ 154	30
Particles >21µm		ASTM D7647	>20	▲ <b>33</b>	▲ 38	9
Particles >38µm		ASTM D7647	>4	<b>2</b>	2	0
Particles >71µm		ASTM D7647	>3	<b>0</b>	0	0
Oil Cleanliness		ISO 4406 (c)	>--/17/13	▲ <b>19/17/14</b>	▲ 20/18/14	16/12

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.4	<b>0.31</b>	0.29	0.25

# OIL ANALYSIS REPORT



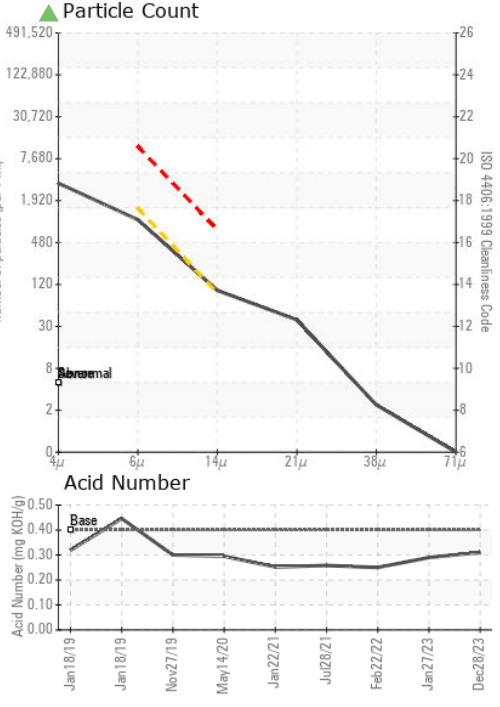
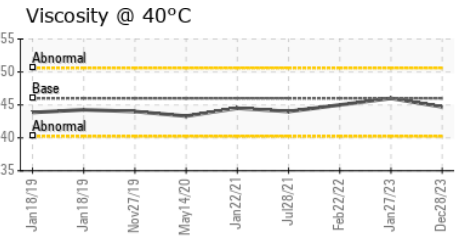
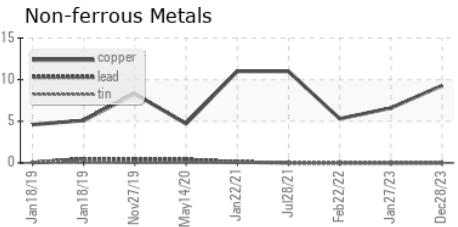
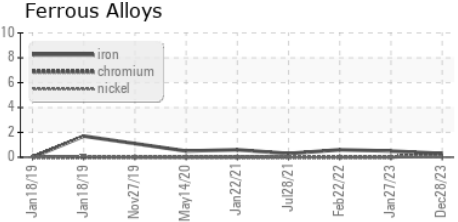
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	VLITE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	VLITE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.05	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 46	44.7	46.0	45.0

**SAMPLE IMAGES**

method	limit/base	current	history1	history2
Color				
Bottom				

**GRAPHS**



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : KC127389 **Recieved** : 12 Jan 2024  
**Lab Number** : 06060279 **Diagnosed** : 16 Jan 2024  
**Unique Number** : 10831661 **Diagnostician** : Don Baldrige  
**Test Package** : IND 2

**ACCU-RITE TOOL**  
 23 INDUSTRIAL PARK RD W  
 TOLLAND, CT  
 US 06084  
 Contact: STAN  
 stan@accu-rite.com  
 T:  
 F:

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)