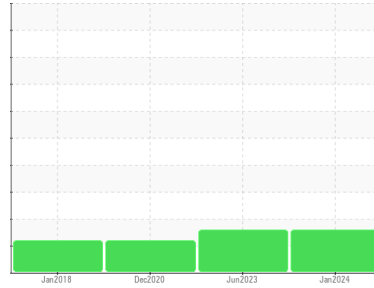




# OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Machine Id  
**KAESER AIRCENTER SX 5 3736015 (S/N 1073)**

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 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.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			<b>KCPA004906</b>	KCPA004327	KCP29679
Sample Date	Client Info			<b>26 Jan 2024</b>	06 Jun 2023	15 Dec 2020
Machine Age	hrs	Client Info		<b>67729</b>	63761	53042
Oil Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed	Client Info			<b>N/A</b>	N/A	Changed
Sample Status				<b>ABNORMAL</b>	ABNORMAL	ABNORMAL

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	<b>0</b>	0	0
Chromium	ppm	ASTM D5185m	>10	<b>0</b>	0	0
Nickel	ppm	ASTM D5185m	>3	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m	>3	<b>&lt;1</b>	0	0
Silver	ppm	ASTM D5185m	>2	<b>0</b>	<1	<1
Aluminum	ppm	ASTM D5185m	>10	<b>0</b>	0	0
Lead	ppm	ASTM D5185m	>10	<b>&lt;1</b>	<1	0
Copper	ppm	ASTM D5185m	>50	<b>23</b>	5	28
Tin	ppm	ASTM D5185m	>10	<b>&lt;1</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	8
Barium	ppm	ASTM D5185m	90	<b>52</b>	8	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>58</b>	69	6
Calcium	ppm	ASTM D5185m	2	<b>0</b>	<1	0
Phosphorus	ppm	ASTM D5185m		<b>0</b>	1	3
Zinc	ppm	ASTM D5185m		<b>2</b>	32	90
Sulfur	ppm	ASTM D5185m		<b>17364</b>	22844	13912

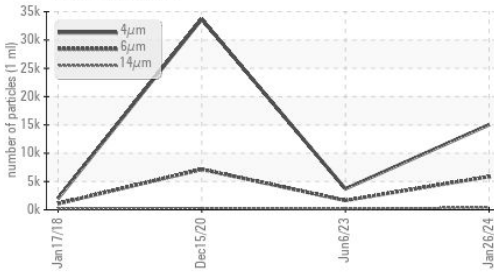
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<b>&lt;1</b>	0	2
Sodium	ppm	ASTM D5185m		<b>4</b>	9	12
Potassium	ppm	ASTM D5185m	>20	<b>0</b>	3	<1
Water	%	ASTM D6304	>0.05	<b>0.012</b>	0.022	0.006
ppm Water	ppm	ASTM D6304	>500	<b>128</b>	220.1	68.0

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		<b>15028</b>	3711	33682
Particles >6µm		ASTM D7647	>1300	<b>▲ 5854</b>	▲ 1645	▲ 7154
Particles >14µm		ASTM D7647	>80	<b>▲ 383</b>	▲ 167	▲ 302
Particles >21µm		ASTM D7647	>20	<b>▲ 74</b>	▲ 42	▲ 55
Particles >38µm		ASTM D7647	>4	<b>1</b>	1	3
Particles >71µm		ASTM D7647	>3	<b>0</b>	0	0
Oil Cleanliness		ISO 4406 (c)	>--/17/13	<b>▲ 21/20/16</b>	▲ 19/18/15	▲ 20/15

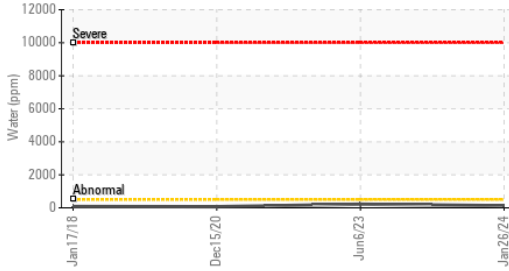
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.4	<b>0.33</b>	0.37	0.167

# OIL ANALYSIS REPORT

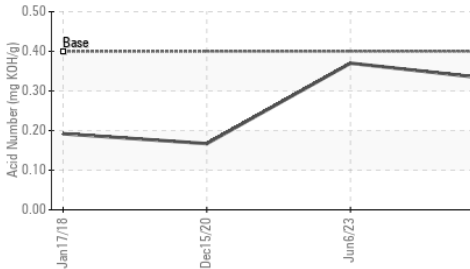
## ▲ Particle Trend



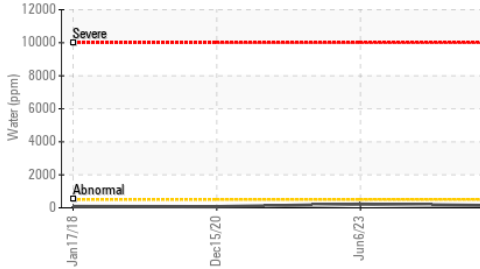
## Water (KF)



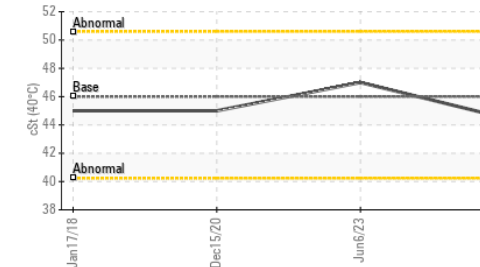
## Acid Number



## Water (KF)



## Viscosity @ 40°C



VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	LIGHT	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	NONE
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

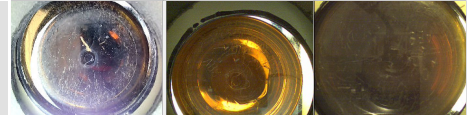
FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 46	44.5	47.0	45.0

SAMPLE IMAGES	method	limit/base	current	history1	history2
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Color

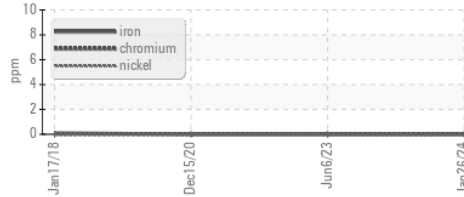


Bottom

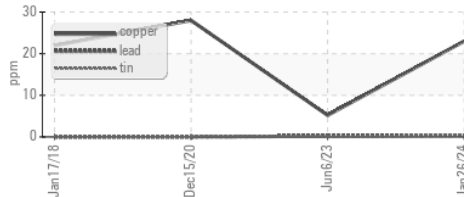


## GRAPHS

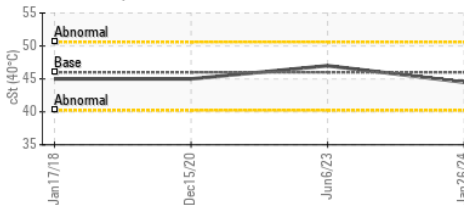
### Ferrous Alloys



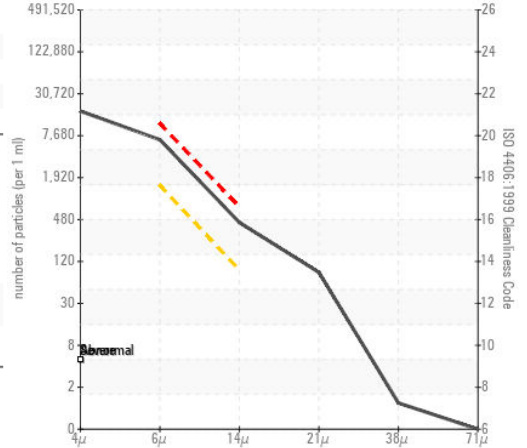
### Non-ferrous Metals



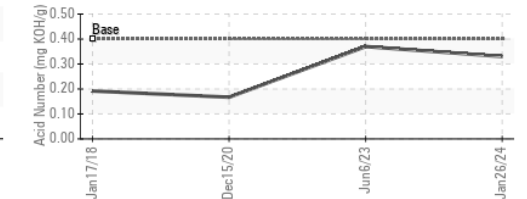
### Viscosity @ 40°C



### ▲ Particle Count



### Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
 Sample No. : KCPA004906  
 Lab Number : 06076865  
 Unique Number : 10858956  
 Test Package : IND 2 ( Additional Tests: KF, PrtCount )

**OWENS & MINOR DISTRIBUTION INC**  
 550 LADESIDE PKWY, SUITE 200  
 FLOWER MOUND, TX  
 US 75028  
 Contact: Service Manager

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)

T:  
F: