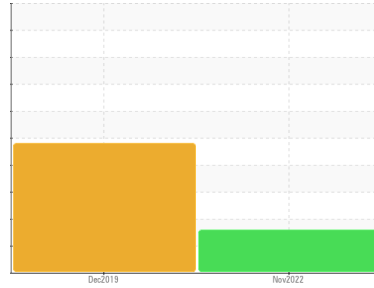




# OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Machine Id  
**KAESER AIRTOWER 7.5C 5670853 (S/N 1533)**

Component  
**Compressor**  
Fluid  
**{not provided} (--- GAL)**

## DIAGNOSIS

### ▲ Recommendation

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. 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>KCP53365</b>	KCP20263	---
Sample Date	Client Info			<b>30 Nov 2022</b>	03 Dec 2019	---
Machine Age	hrs	Client Info		<b>4311</b>	2985	---
Oil Age	hrs	Client Info		<b>1325</b>	2000	---
Oil Changed	Client Info			<b>Changed</b>	Changed	---
Sample Status				<b>ABNORMAL</b>	ABNORMAL	---

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	<b>&lt;1</b>	<1	---
Chromium	ppm	ASTM D5185m	>10	<b>&lt;1</b>	0	---
Nickel	ppm	ASTM D5185m	>3	<b>&lt;1</b>	<1	---
Titanium	ppm	ASTM D5185m	>3	<b>0</b>	0	---
Silver	ppm	ASTM D5185m	>2	<b>0</b>	<1	---
Aluminum	ppm	ASTM D5185m	>10	<b>0</b>	1	---
Lead	ppm	ASTM D5185m	>10	<b>0</b>	3	---
Copper	ppm	ASTM D5185m	>50	<b>18</b>	1	---
Tin	ppm	ASTM D5185m	>10	<b>&lt;1</b>	<1	---
Antimony	ppm	ASTM D5185m		<b>---</b>	0	---
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	---
Cadmium	ppm	ASTM D5185m		<b>0</b>	<1	---

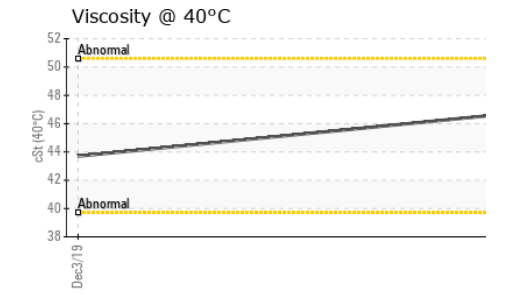
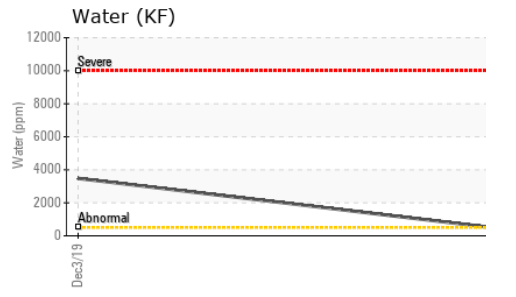
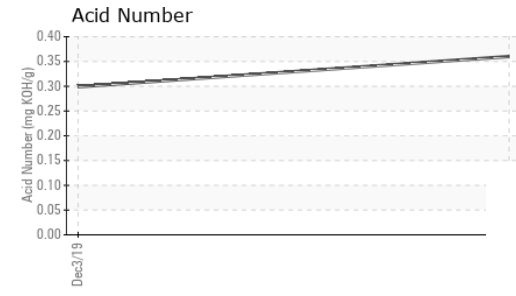
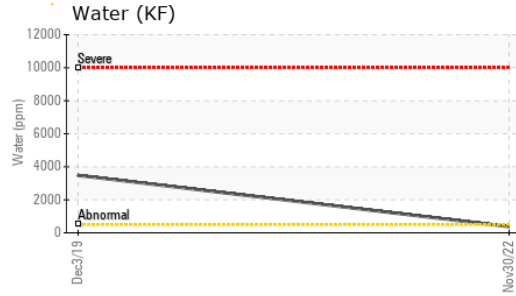
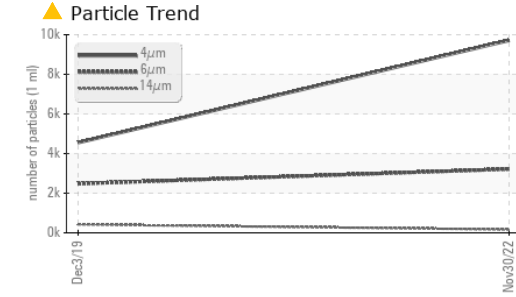
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		<b>0</b>	<1	---
Barium	ppm	ASTM D5185m		<b>0</b>	4	---
Molybdenum	ppm	ASTM D5185m		<b>&lt;1</b>	0	---
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	1	---
Magnesium	ppm	ASTM D5185m		<b>18</b>	42	---
Calcium	ppm	ASTM D5185m		<b>0</b>	1	---
Phosphorus	ppm	ASTM D5185m		<b>35</b>	3	---
Zinc	ppm	ASTM D5185m		<b>36</b>	5	---
Sulfur	ppm	ASTM D5185m		<b>23495</b>	4278	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<b>2</b>	<1	---
Sodium	ppm	ASTM D5185m		<b>5</b>	1	---
Potassium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	<1	---
Water	%	ASTM D6304	>0.05	<b>0.037</b>	▲ 0.348	---
ppm Water	ppm	ASTM D6304	>500	<b>375.7</b>	▲ 3480	---

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		<b>9714</b>	4551	---
Particles >6µm		ASTM D7647	>1300	▲ <b>3217</b>	▲ 2479	---
Particles >14µm		ASTM D7647	>80	▲ <b>163</b>	▲ 422	---
Particles >21µm		ASTM D7647	>20	▲ <b>33</b>	▲ 142	---
Particles >38µm		ASTM D7647	>4	<b>1</b>	▲ 22	---
Particles >71µm		ASTM D7647	>3	<b>0</b>	▲ 2	---
Oil Cleanliness		ISO 4406 (c)	>--/17/13	▲ <b>20/19/15</b>	▲ 18/16	---

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		<b>0.36</b>	0.299	---

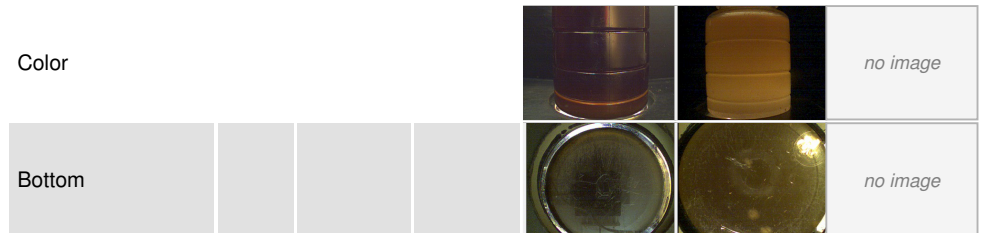
# OIL ANALYSIS REPORT



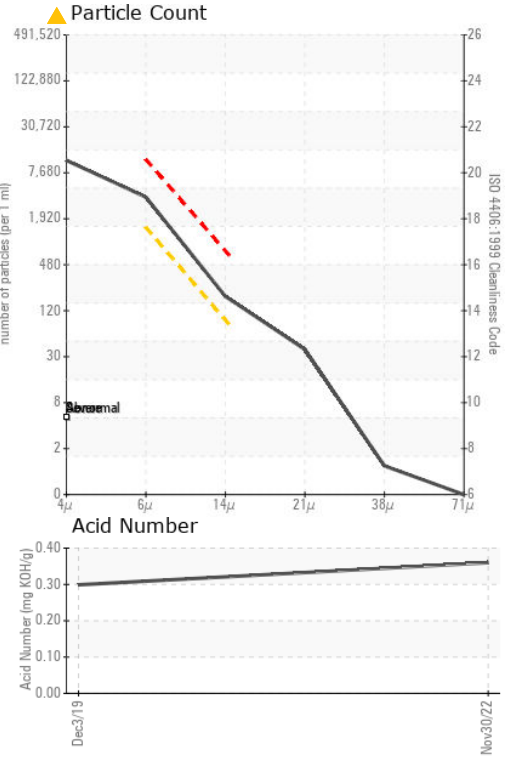
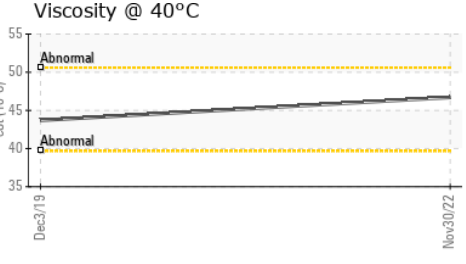
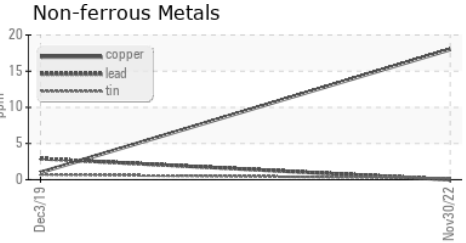
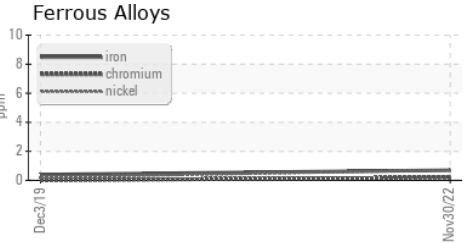
PARAMETER	VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	▲ HEAVY	---
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	▲ HAZY	---
Odor	scalar	*Visual	NORML	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.05	NEG	0.2%	---
Free Water	scalar	*Visual		NEG	NEG	---

PARAMETER	FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445		46.7	43.7	---

PARAMETER	SAMPLE IMAGES	method	limit/base	current	history1	history2
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## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : KCP53365 **Received** : 06 Dec 2022  
**Lab Number** : 05710460 **Diagnosed** : 09 Dec 2022  
**Unique Number** : 10245035 **Diagnostician** : Don Baldrige  
**Test Package** : IND 2 ( Additional Tests: KF, PrtCount )

**MARINE SYSTEM DESIGN**  
 106 STATON CT  
 GREENVILLE, NC  
 US 27834  
 Contact: PAUL  
 paul@marinesystemsdesign.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)