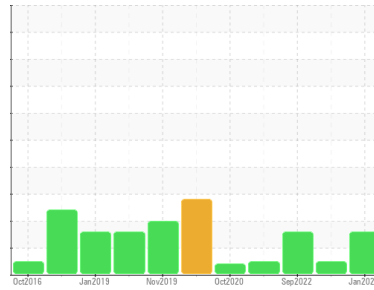




# OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Machine Id  
**KAESER ASD 40T 4624475 (S/N 2595)**

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>KCPA010402</b>	KCP40079D	KCP46826
Sample Date	Client Info		<b>19 Jan 2024</b>	12 Sep 2023	25 Sep 2022
Machine Age	hrs	Client Info	<b>60661</b>	67913	63187
Oil Age	hrs	Client Info	<b>0</b>	0	4000
Oil Changed	Client Info		<b>N/A</b>	N/A	Changed
Sample Status			<b>ABNORMAL</b>	NORMAL	ABNORMAL

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >50	<b>&lt;1</b>	0	0
Chromium	ppm	ASTM D5185m >10	<b>0</b>	0	0
Nickel	ppm	ASTM D5185m >3	<b>&lt;1</b>	0	0
Titanium	ppm	ASTM D5185m >3	<b>0</b>	0	0
Silver	ppm	ASTM D5185m >2	<b>&lt;1</b>	0	0
Aluminum	ppm	ASTM D5185m >10	<b>1</b>	0	0
Lead	ppm	ASTM D5185m >10	<b>2</b>	0	0
Copper	ppm	ASTM D5185m >50	<b>5</b>	13	13
Tin	ppm	ASTM D5185m >10	<b>1</b>	0	0
Antimony	ppm	ASTM D5185m	<b>---</b>	---	---
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>	0	0
Molybdenum	ppm	ASTM D5185m	<b>&lt;1</b>	0	0
Manganese	ppm	ASTM D5185m	<b>2</b>	0	0
Magnesium	ppm	ASTM D5185m 90	<b>28</b>	0	0
Calcium	ppm	ASTM D5185m 2	<b>&lt;1</b>	0	0
Phosphorus	ppm	ASTM D5185m	<b>1</b>	0	<1
Zinc	ppm	ASTM D5185m	<b>33</b>	62	49
Sulfur	ppm	ASTM D5185m	<b>18984</b>	18010	20057

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	<b>1</b>	0	0
Sodium	ppm	ASTM D5185m	<b>12</b>	1	1
Potassium	ppm	ASTM D5185m >20	<b>5</b>	0	0
Water	%	ASTM D6304 >0.05	<b>0.017</b>	0.007	0.007
ppm Water	ppm	ASTM D6304 >500	<b>178</b>	79	78.7

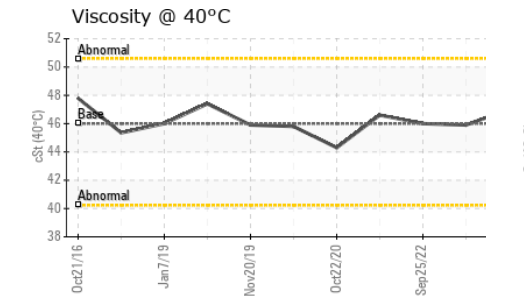
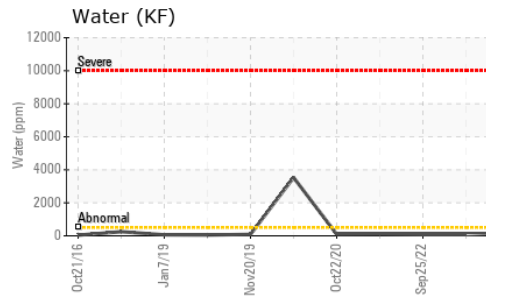
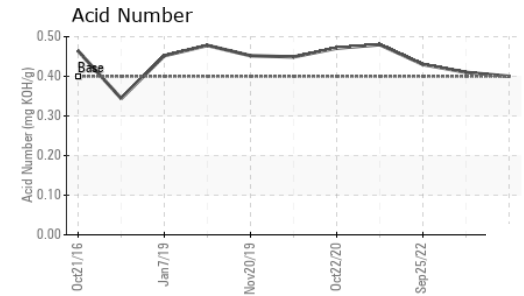
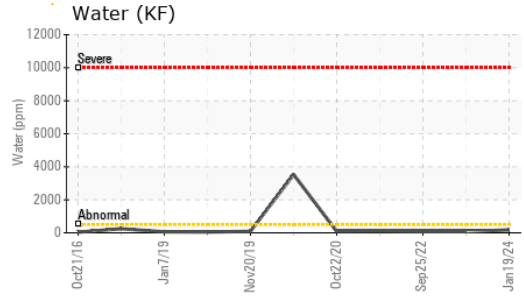
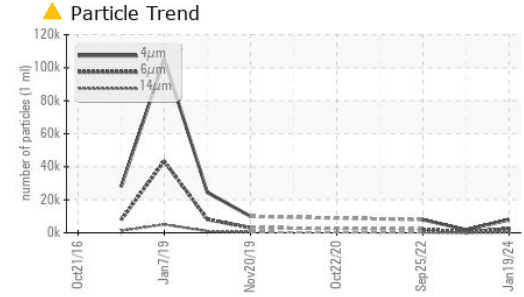
## FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647		<b>7812</b>	1872	7898
Particles >6µm	ASTM D7647 >1300		<b>▲ 2461</b>	381	▲ 2153
Particles >14µm	ASTM D7647 >80		<b>▲ 203</b>	10	▲ 175
Particles >21µm	ASTM D7647 >20		<b>▲ 48</b>	2	▲ 32
Particles >38µm	ASTM D7647 >4		<b>3</b>	0	2
Particles >71µm	ASTM D7647 >3		<b>0</b>	0	0
Oil Cleanliness	ISO 4406 (c) >17/13		<b>▲ 18/15</b>	16/10	▲ 18/15

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 0.4	<b>0.40</b>	0.41	0.43

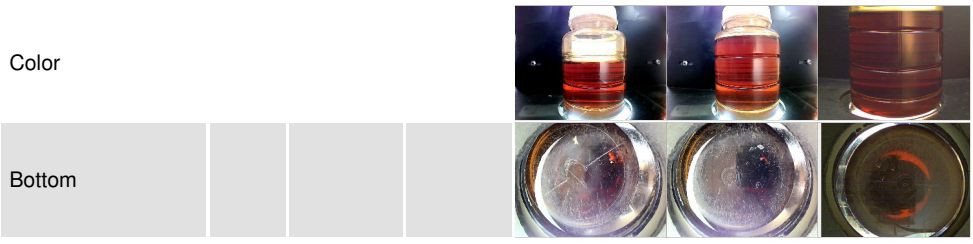
# OIL ANALYSIS REPORT



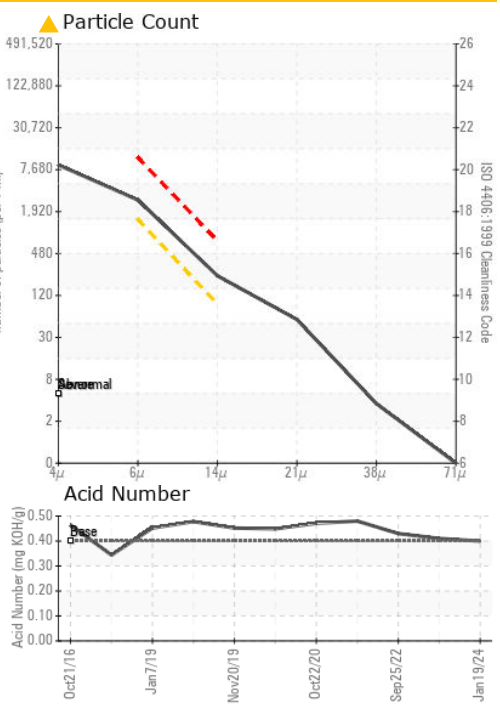
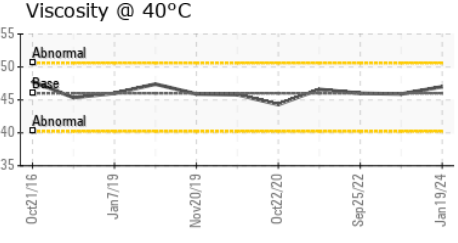
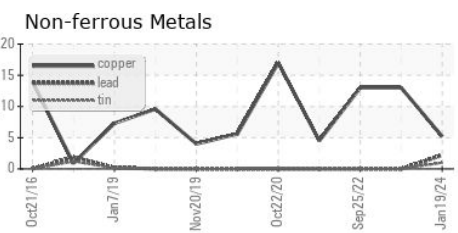
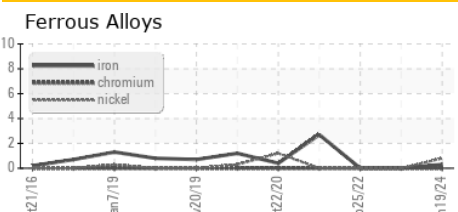
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	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	47.0	45.9	46.0

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



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : KCPA010402 **Recieved** : 01 Feb 2024  
**Lab Number** : 06077723 **Diagnosed** : 04 Feb 2024  
**Unique Number** : 10859814 **Diagnostician** : Don Baldrige  
**Test Package** : IND 2 ( Additional Tests: KF, PrtCount )

**AMADA AMERICA - ADVANTAGE METAL**  
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 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)