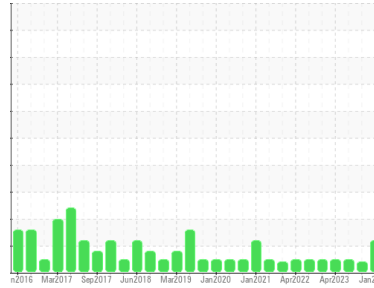




# OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Machine Id  
**KAESER BSD-50T 5446703 (S/N 1201)**

Component  
**Compressor**

Fluid  
**KAESER SIGMA (OEM) S-460 (--- GAL)**

## DIAGNOSIS

### ▲ Recommendation

The filter change at the time of sampling has been noted.

### 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 acceptable for the time in service.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>KC122247</b>	KC05982397	KC100501
Sample Date	Client Info		<b>09 Jan 2024</b>	10 Oct 2023	14 Jul 2023
Machine Age	hrs	Client Info	<b>58803</b>	56910	55053
Oil Age	hrs	Client Info	<b>0</b>	0	3000
Oil Changed	Client Info		<b>N/A</b>	N/A	Not Changd
Sample Status			<b>ATTENTION</b>	ABNORMAL	NORMAL

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >50	<b>0</b>	0	<1
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>0</b>	0	0
Silver	ppm	ASTM D5185m >2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m >10	<b>0</b>	0	<1
Lead	ppm	ASTM D5185m >10	<b>0</b>	0	0
Copper	ppm	ASTM D5185m >50	<b>13</b>	11	6
Tin	ppm	ASTM D5185m >10	<b>0</b>	0	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>	0	0
Molybdenum	ppm	ASTM D5185m	<b>0</b>	0	0
Manganese	ppm	ASTM D5185m	<b>0</b>	0	<1
Magnesium	ppm	ASTM D5185m 90	<b>0</b>	12	29
Calcium	ppm	ASTM D5185m 2	<b>0</b>	0	0
Phosphorus	ppm	ASTM D5185m	<b>0</b>	<1	0
Zinc	ppm	ASTM D5185m	<b>27</b>	39	31

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	<b>0</b>	<1	0
Sodium	ppm	ASTM D5185m	<b>1</b>	4	7
Potassium	ppm	ASTM D5185m >20	<b>0</b>	0	3
Water	%	ASTM D6304 >0.05	<b>0.008</b>	0.011	0.019
ppm Water	ppm	ASTM D6304 >500	<b>86</b>	112.4	196.3

## FLUID CLEANLINESS

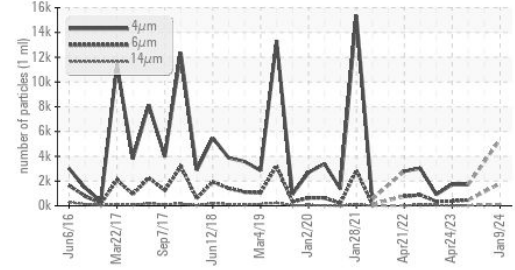
	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647		<b>5332</b>	---	1703
Particles >6µm	ASTM D7647	>1300	<b>▲ 1805</b>	---	461
Particles >14µm	ASTM D7647	>80	<b>▲ 116</b>	---	38
Particles >21µm	ASTM D7647	>20	<b>28</b>	---	10
Particles >38µm	ASTM D7647	>4	<b>3</b>	---	1
Particles >71µm	ASTM D7647	>3	<b>0</b>	---	0
Oil Cleanliness	ISO 4406 (c)	>--/17/13	<b>▲ 20/18/14</b>	---	18/16/12

## FLUID DEGRADATION

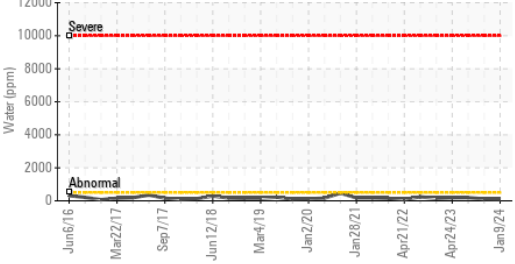
	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 0.4	<b>0.34</b>	0.35	0.37

# OIL ANALYSIS REPORT

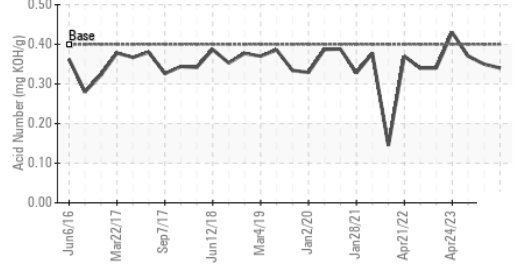
### Particle Trend



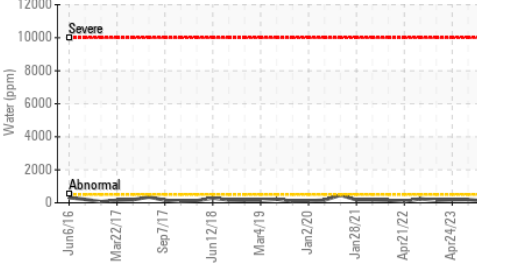
### Water (KF)



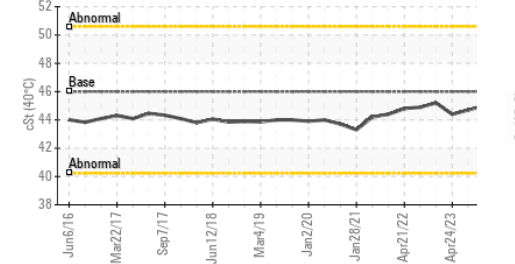
### Acid Number



### Water (KF)



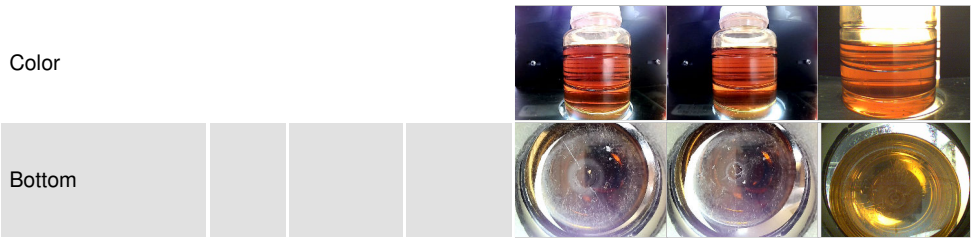
### Viscosity @ 40°C



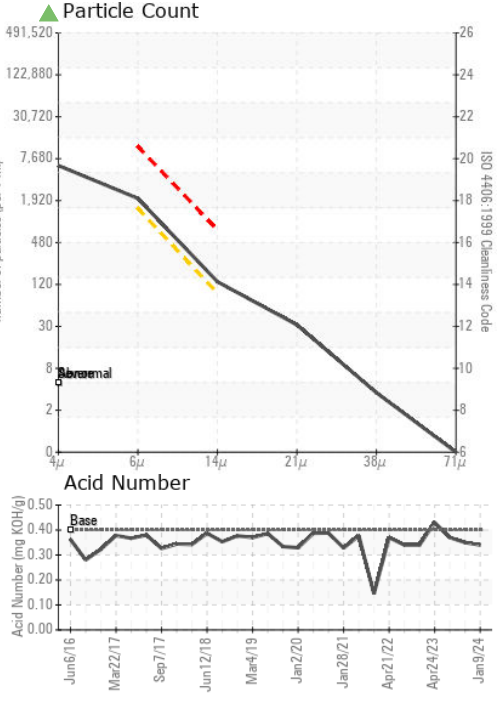
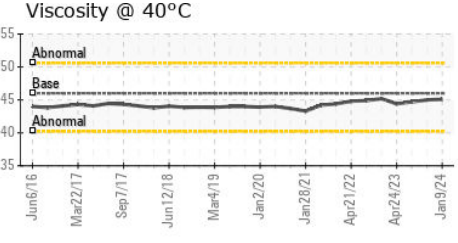
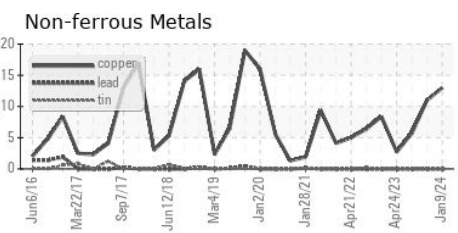
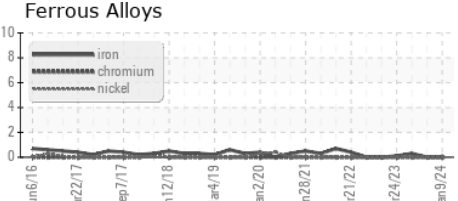
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	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	45.1	45.0

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



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : KC122247 **Received** : 30 Jan 2024  
**Lab Number** : 06073953 **Diagnosed** : 31 Jan 2024  
**Unique Number** : 10856044 **Diagnostician** : Angela Borella  
**Test Package** : IND 2

**ACCRO TOOL ENTERPRISES**  
 401 HUNT VALLEY DR  
 NEW KENSINGTON, PA  
 US 15068  
 Contact:

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)

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