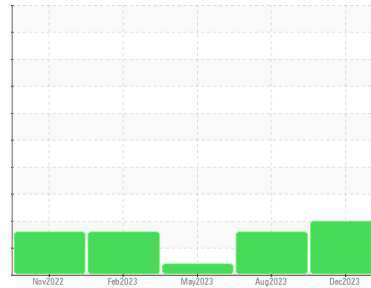


# OIL ANALYSIS REPORT

## Sample Rating Trend



ISO



Machine Id  
**KAESER BSD 50T 8510663 (S/N 1313)**

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>KC06062720</b>	KC05937260	KC05869489
Sample Date	Client Info	<b>20 Dec 2023</b>	16 Aug 2023	23 May 2023
Machine Age	hrs	<b>9483</b>	7847	5827
Oil Age	hrs	<b>0</b>	0	0
Oil Changed	Client Info	<b>N/A</b>	N/A	N/A
Sample Status		<b>ABNORMAL</b>	ABNORMAL	ABNORMAL

### WEAR METALS

method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m >50	<b>0</b>	<1	<1
Chromium	ppm	ASTM D5185m >10	<b>0</b>	<1	0
Nickel	ppm	ASTM D5185m >3	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m >3	<b>0</b>	<1	0
Silver	ppm	ASTM D5185m >2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m >10	<b>1</b>	3	<1
Lead	ppm	ASTM D5185m >10	<b>0</b>	<1	0
Copper	ppm	ASTM D5185m >50	<b>13</b>	16	8
Tin	ppm	ASTM D5185m >10	<b>0</b>	<1	0
Vanadium	ppm	ASTM D5185m	<b>0</b>	<1	0
Cadmium	ppm	ASTM D5185m	<b>0</b>	<1	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>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m 90	<b>2</b>	8	23
Calcium	ppm	ASTM D5185m 2	<b>&lt;1</b>	0	0
Phosphorus	ppm	ASTM D5185m	<b>0</b>	2	2
Zinc	ppm	ASTM D5185m	<b>18</b>	33	67

### CONTAMINANTS

method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m >25	<b>0</b>	<1	0
Sodium	ppm	ASTM D5185m	<b>0</b>	2	12
Potassium	ppm	ASTM D5185m >20	<b>0</b>	3	7
Water	%	ASTM D6304 >0.05	<b>0.030</b>	0.005	0.020
ppm Water	ppm	ASTM D6304 >500	<b>301</b>	59.3	209.8

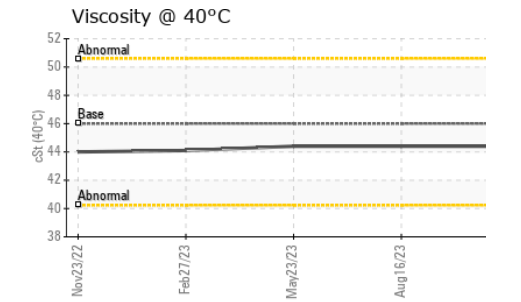
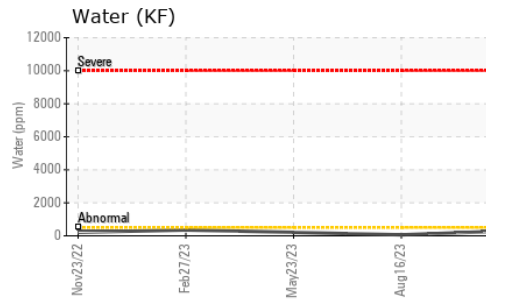
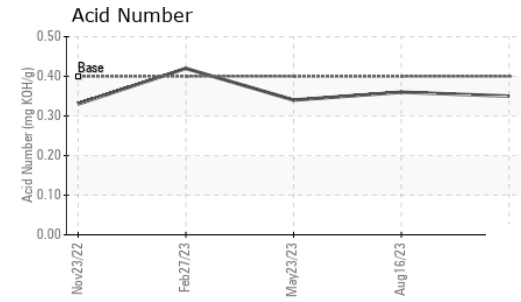
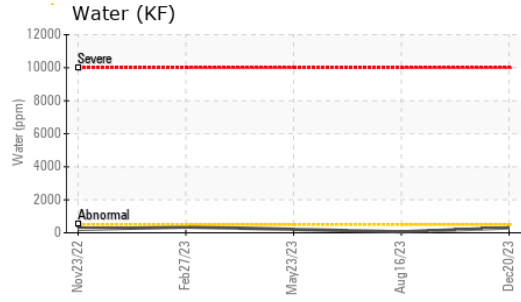
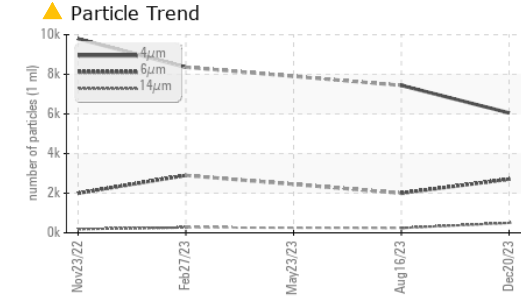
### FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	<b>6052</b>	7441	---
Particles >6µm	ASTM D7647 >1300	▲ <b>2705</b>	▲ 2001	---
Particles >14µm	ASTM D7647 >80	▲ <b>500</b>	▲ 242	---
Particles >21µm	ASTM D7647 >20	▲ <b>173</b>	▲ 78	---
Particles >38µm	ASTM D7647 >4	▲ <b>9</b>	3	---
Particles >71µm	ASTM D7647 >3	▲ <b>1</b>	0	---
Oil Cleanliness	ISO 4406 (c) >--/17/13	▲ <b>20/19/16</b>	▲ 20/18/15	---

### FLUID DEGRADATION

method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D8045 0.4	<b>0.35</b>	0.36	0.34

# OIL ANALYSIS REPORT

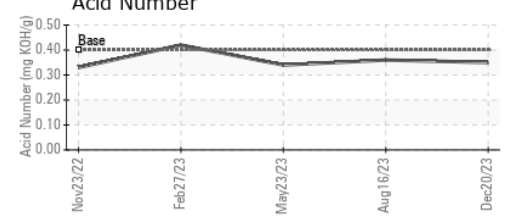
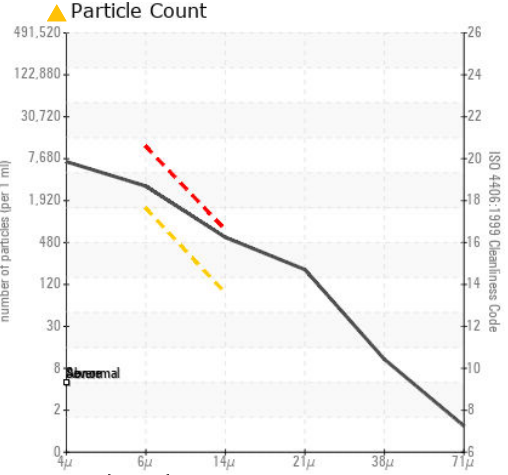
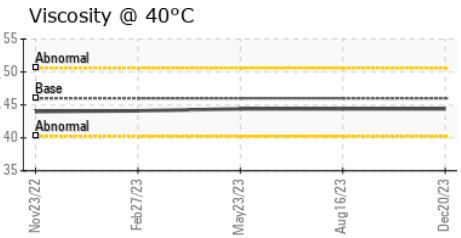
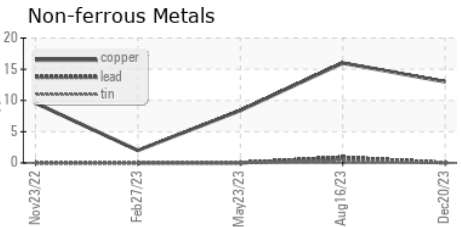
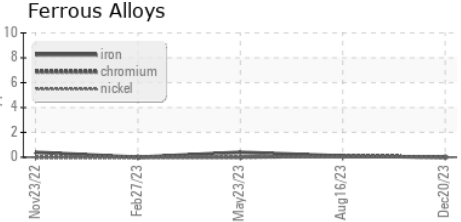


PARAMETER	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	LIGHT	LIGHT
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	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	44.4	44.4

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : KC06062720 **Received** : 17 Jan 2024  
**Lab Number** : 06062720 **Diagnosed** : 19 Jan 2024  
**Unique Number** : 10834102 **Diagnostician** : Doug Bogart  
**Test Package** : IND 2

**CHEP USA**  
 6110 US HWY 129 NORTH  
 PENDERGRASS, GA  
 US 30549  
 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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