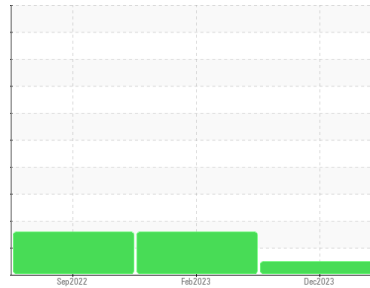


# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Machine Id  
**KAESER BSD 60 7194147 (S/N 1595)**

Component  
**Compressor**

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

**DIAGNOSIS**

**Recommendation**

Resample at the next service interval to monitor.

**Wear**

All component wear rates are normal.

**Contamination**

There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

**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>KCPA011000</b>	KCP46228	KCP49328
Sample Date	Client Info		<b>13 Dec 2023</b>	23 Feb 2023	09 Sep 2022
Machine Age	hrs	Client Info	<b>12422</b>	9454	9178
Oil Age	hrs	Client Info	<b>0</b>	300	2340
Oil Changed	Client Info		<b>N/A</b>	Changed	Changed
Sample Status			<b>NORMAL</b>	MARGINAL	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>	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>	<1	0
Aluminum	ppm	ASTM D5185m >10	<b>2</b>	1	0
Lead	ppm	ASTM D5185m >10	<b>0</b>	0	0
Copper	ppm	ASTM D5185m >50	<b>&lt;1</b>	<1	2
Tin	ppm	ASTM D5185m >10	<b>0</b>	0	<1
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>43</b>	74	9
Molybdenum	ppm	ASTM D5185m	<b>0</b>	0	0
Manganese	ppm	ASTM D5185m	<b>0</b>	0	<1
Magnesium	ppm	ASTM D5185m 90	<b>91</b>	81	65
Calcium	ppm	ASTM D5185m 2	<b>2</b>	2	<1
Phosphorus	ppm	ASTM D5185m	<b>28</b>	3	12
Zinc	ppm	ASTM D5185m	<b>0</b>	1	4
Sulfur	ppm	ASTM D5185m	<b>21253</b>	18656	21685

**CONTAMINANTS**

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	<b>0</b>	<1	2
Sodium	ppm	ASTM D5185m	<b>14</b>	5	11
Potassium	ppm	ASTM D5185m >20	<b>9</b>	2	9
Water	%	ASTM D6304 >0.05	<b>0.019</b>	▲ 0.054	0.028
ppm Water	ppm	ASTM D6304 >500	<b>190</b>	▲ 548.0	288.2

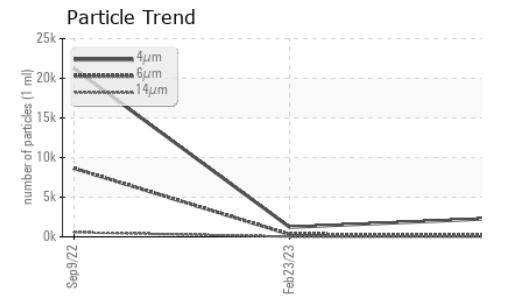
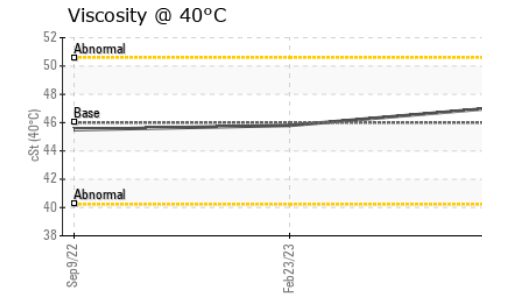
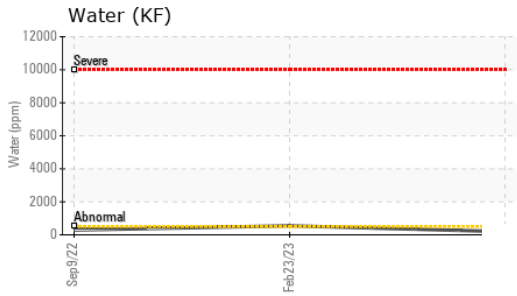
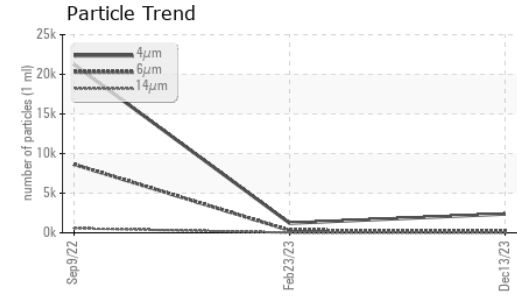
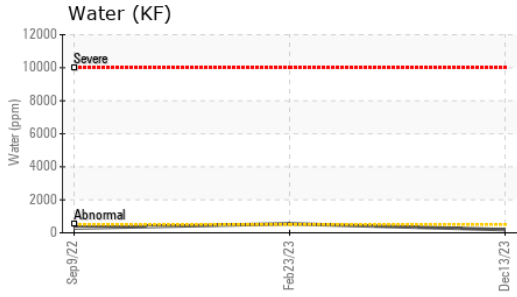
**FLUID CLEANLINESS**

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647		<b>2375</b>	1215	21239
Particles >6µm	ASTM D7647 >1300		<b>252</b>	303	▲ 8631
Particles >14µm	ASTM D7647 >80		<b>19</b>	16	▲ 567
Particles >21µm	ASTM D7647 >20		<b>6</b>	5	▲ 63
Particles >38µm	ASTM D7647 >4		<b>2</b>	0	2
Particles >71µm	ASTM D7647 >3		<b>2</b>	0	0
Oil Cleanliness	ISO 4406 (c)	>--/17/13	<b>18/15/11</b>	17/15/11	▲ 22/20/16

**FLUID DEGRADATION**

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 0.4	<b>0.33</b>	0.34	0.43

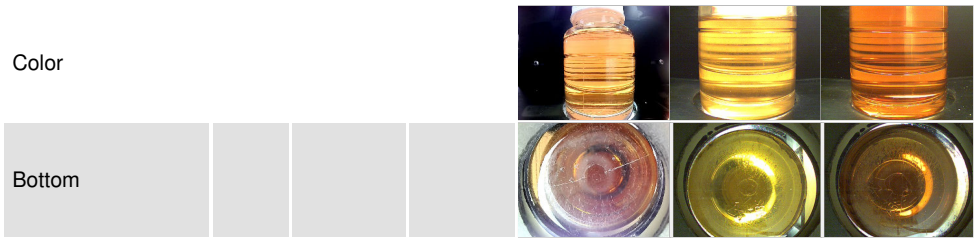
# OIL ANALYSIS REPORT



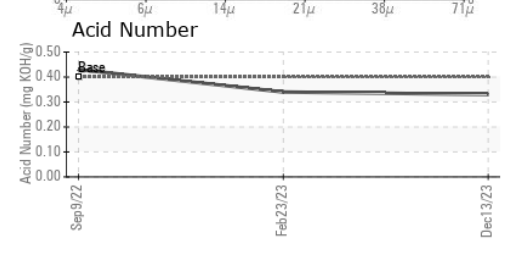
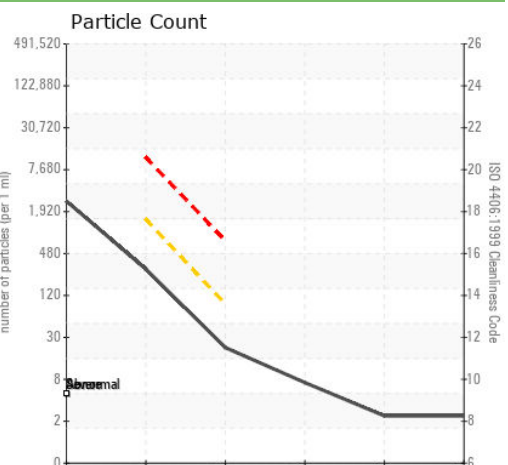
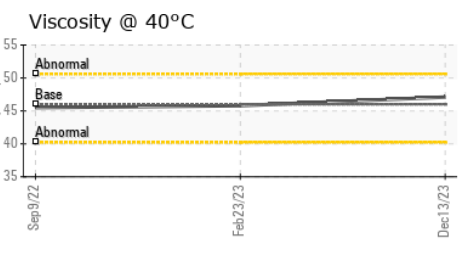
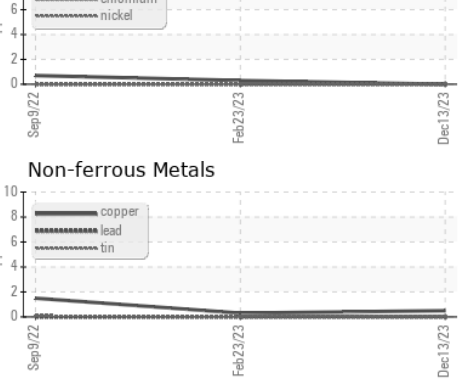
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	LIGHT
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	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	47.1	45.8

SAMPLE IMAGES	method	limit/base	current	history1	history2
---------------	--------	------------	---------	----------	----------



## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : KCPA011000 **Received** : 10 Jan 2024  
**Lab Number** : 06057362 **Diagnosed** : 12 Jan 2024  
**Unique Number** : 10823311 **Diagnostician** : Don Baldrige  
**Test Package** : IND 2 ( Additional Tests: KF, PrtCount )

**AMERISOURCE BERGEN**  
 6301 LA SALLE DR  
 LOCKBOURNE, OH  
 US 43137  
 Contact: M. BAUGHN  
 mbaughn@amerisourcebergen.com  
 T:  
 F:

Certificate L2367  
 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)