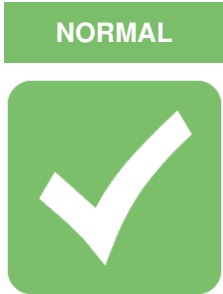
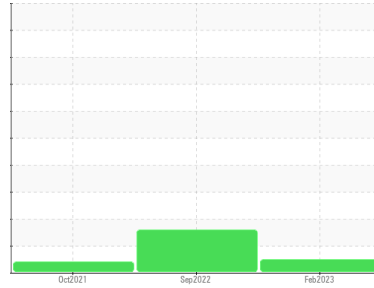




# OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id  
**KAESER BSD 60 7266230 (S/N 1607)**

Component  
**Compressor**

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

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### Contamination

The amount and size of particulates present in the system are acceptable. There is no indication of any contamination 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>KCP46241</b>	KCP49267	KCP39353
Sample Date	Client Info		<b>23 Feb 2023</b>	09 Sep 2022	04 Oct 2021
Machine Age	hrs	Client Info	<b>11280</b>	7544	3745
Oil Age	hrs	Client Info	<b>3738</b>	3184	3745
Oil Changed	Client Info		<b>Changed</b>	Changed	Changed
Sample Status			<b>NORMAL</b>	ABNORMAL	ABNORMAL

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >50	<b>&lt;1</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>	0	0
Silver	ppm	ASTM D5185m >2	<b>&lt;1</b>	0	0
Aluminum	ppm	ASTM D5185m >10	<b>1</b>	0	<1
Lead	ppm	ASTM D5185m >10	<b>0</b>	4	<1
Copper	ppm	ASTM D5185m >50	<b>&lt;1</b>	2	1
Tin	ppm	ASTM D5185m >10	<b>0</b>	<1	<1
Antimony	ppm	ASTM D5185m	<b>---</b>	---	0
Vanadium	ppm	ASTM D5185m	<b>0</b>	<1	0
Cadmium	ppm	ASTM D5185m	<b>0</b>	0	0

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 0	<b>0</b>	0	<1
Barium	ppm	ASTM D5185m 90	<b>63</b>	0	4
Molybdenum	ppm	ASTM D5185m 0	<b>0</b>	0	0
Manganese	ppm	ASTM D5185m	<b>0</b>	<1	<1
Magnesium	ppm	ASTM D5185m 100	<b>82</b>	56	72
Calcium	ppm	ASTM D5185m 0	<b>3</b>	<1	0
Phosphorus	ppm	ASTM D5185m 0	<b>3</b>	9	4
Zinc	ppm	ASTM D5185m 0	<b>3</b>	2	0
Sulfur	ppm	ASTM D5185m 23500	<b>18353</b>	14783	15797

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	<b>&lt;1</b>	1	<1
Sodium	ppm	ASTM D5185m	<b>22</b>	10	13
Potassium	ppm	ASTM D5185m >20	<b>4</b>	10	6
Water	%	ASTM D6304 >0.05	<b>0.025</b>	0.034	0.026
ppm Water	ppm	ASTM D6304 >500	<b>256.7</b>	340.8	267.4

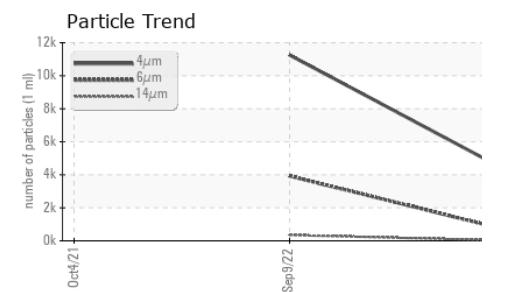
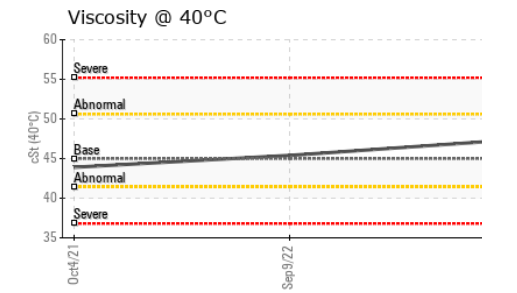
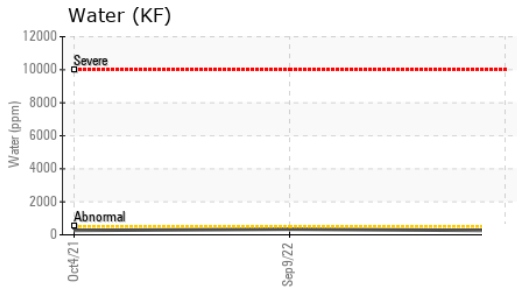
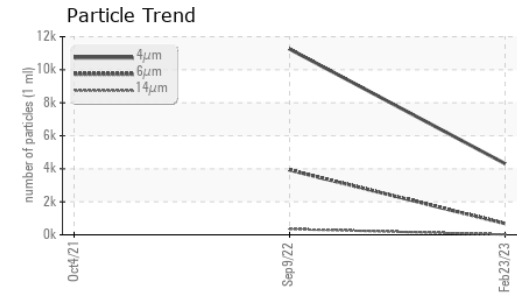
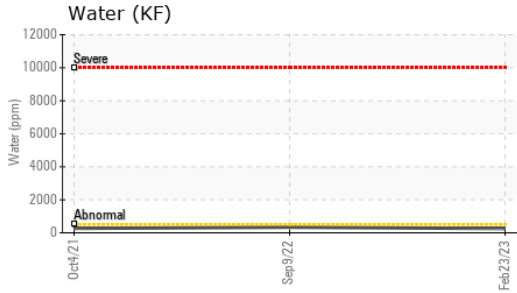
## FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647		<b>4309</b>	11252	---
Particles >6µm	ASTM D7647 >1300		<b>683</b>	▲ 3925	---
Particles >14µm	ASTM D7647 >80		<b>18</b>	▲ 347	---
Particles >21µm	ASTM D7647 >20		<b>2</b>	▲ 48	---
Particles >38µm	ASTM D7647 >4		<b>0</b>	1	---
Particles >71µm	ASTM D7647 >3		<b>0</b>	0	---
Oil Cleanliness	ISO 4406 (c)	>--/17/13	<b>19/17/11</b>	▲ 21/19/16	---

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 1.0	<b>0.38</b>	0.43	0.357

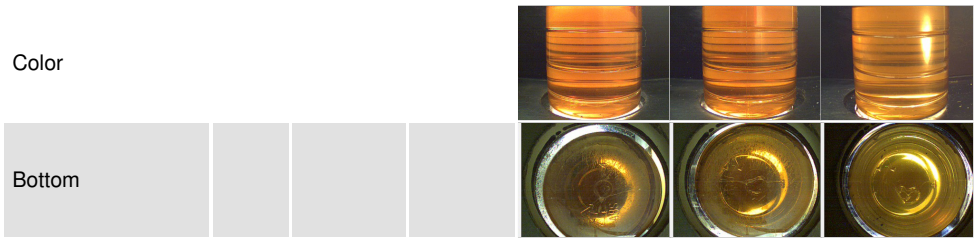
# OIL ANALYSIS REPORT



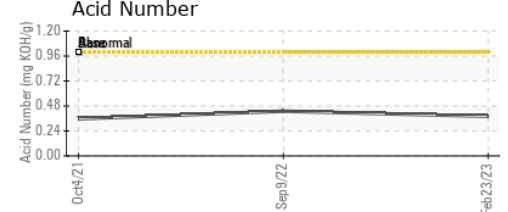
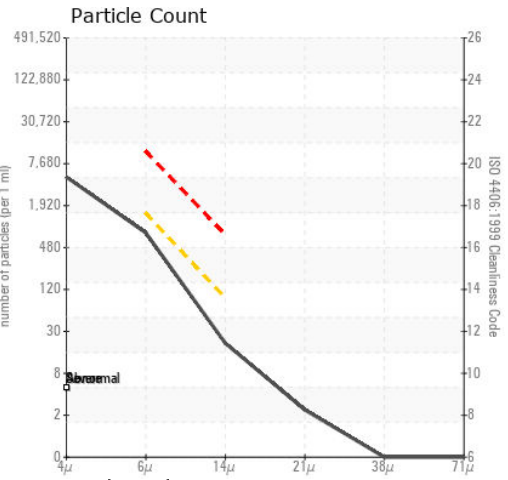
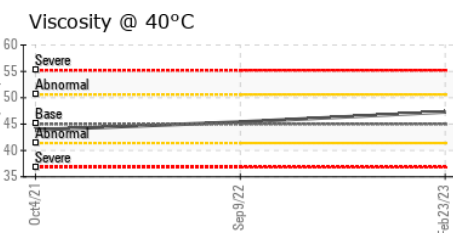
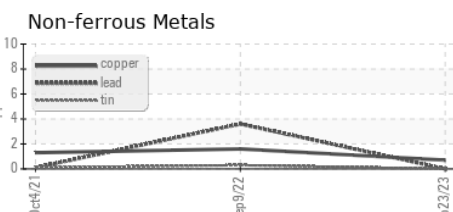
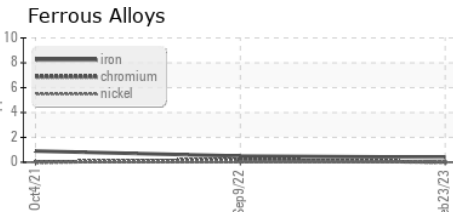
VISUAL	method	limit/base	current	history1	history2	
White Metal	scalar	*Visual	NONE	NONE	NONE	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Precipitate	scalar	*Visual	NONE	NONE	NONE	
Silt	scalar	*Visual	NONE	NONE	NONE	
Debris	scalar	*Visual	NONE	LIGHT	NONE	▲ MODER
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
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 45	47.3	45.4	43.9

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



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : KCP46241 **Received** : 06 Mar 2023  
**Lab Number** : 05784538 **Diagnosed** : 08 Mar 2023  
**Unique Number** : 10364208 **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

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)

T:  
F: