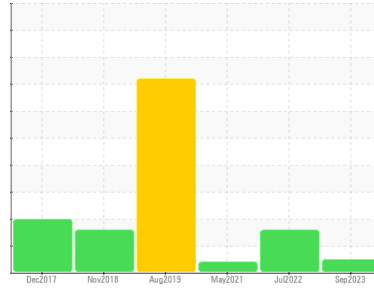




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Machine Id  
**KAESER ASD 25 2070250 (S/N 1139)**

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

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>KCPA006694</b>	KCP51776	KCP32444	
Sample Date	Client Info	<b>28 Sep 2023</b>	07 Jul 2022	27 May 2021	
Machine Age	hrs	Client Info	<b>16083</b>	14921	14067
Oil Age	hrs	Client Info	<b>0</b>	900	2800
Oil Changed	Client Info	<b>N/A</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>	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>2</b>	2	0
Lead	ppm	ASTM D5185m >10	<b>0</b>	<1	<1
Copper	ppm	ASTM D5185m >50	<b>&lt;1</b>	<1	<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>	0	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>24</b>	20	6
Molybdenum	ppm	ASTM D5185m 0	<b>0</b>	0	0
Manganese	ppm	ASTM D5185m	<b>0</b>	0	<1
Magnesium	ppm	ASTM D5185m 100	<b>86</b>	78	67
Calcium	ppm	ASTM D5185m 0	<b>2</b>	4	2
Phosphorus	ppm	ASTM D5185m 0	<b>5</b>	3	7
Zinc	ppm	ASTM D5185m 0	<b>3</b>	5	0
Sulfur	ppm	ASTM D5185m 23500	<b>22619</b>	20653	18004

## CONTAMINANTS

method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m >25	<b>0</b>	<1	1
Sodium	ppm	ASTM D5185m	<b>19</b>	17	24
Potassium	ppm	ASTM D5185m >20	<b>3</b>	3	3
Water	%	ASTM D6304 >0.05	<b>0.029</b>	0.028	0.026
ppm Water	ppm	ASTM D6304 >500	<b>298.1</b>	280.4	265.0

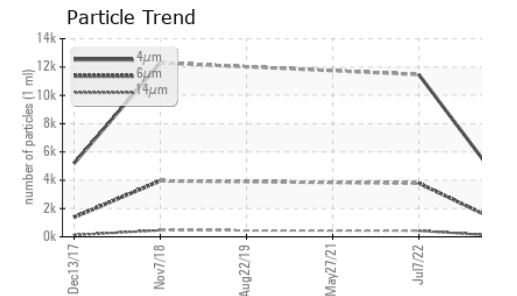
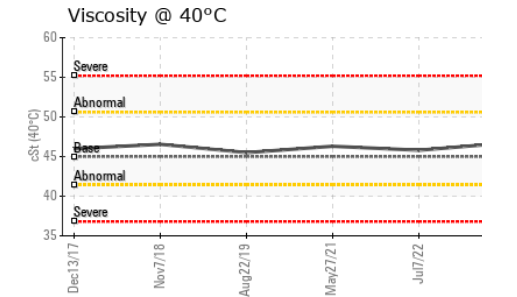
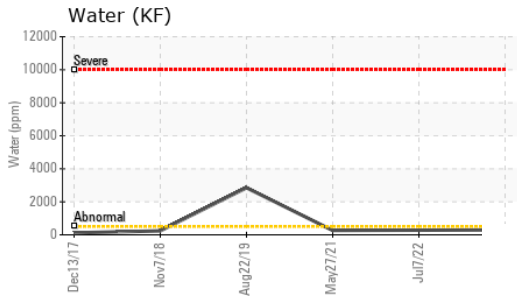
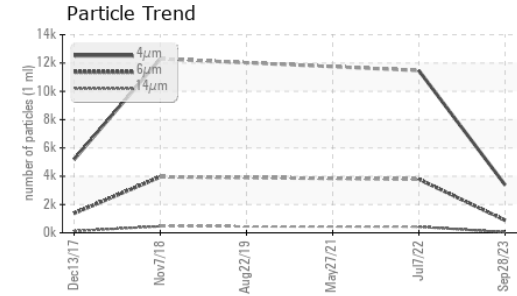
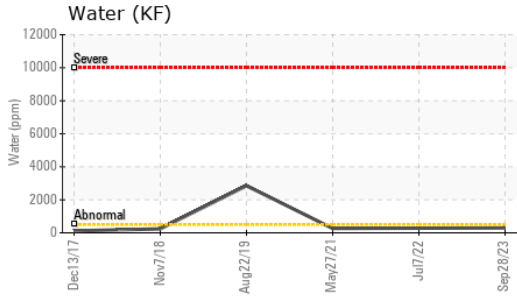
## FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	<b>3382</b>	11464	---
Particles >6µm	ASTM D7647 >1300	<b>890</b>	▲ 3787	---
Particles >14µm	ASTM D7647 >80	<b>44</b>	▲ 431	---
Particles >21µm	ASTM D7647 >20	<b>10</b>	▲ 129	---
Particles >38µm	ASTM D7647 >4	<b>1</b>	4	---
Particles >71µm	ASTM D7647 >3	<b>0</b>	1	---
Oil Cleanliness	ISO 4406 (c) >17/13	<b>17/13</b>	▲ 19/16	---

## FLUID DEGRADATION

method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D8045 1.0	<b>0.33</b>	0.38	0.355

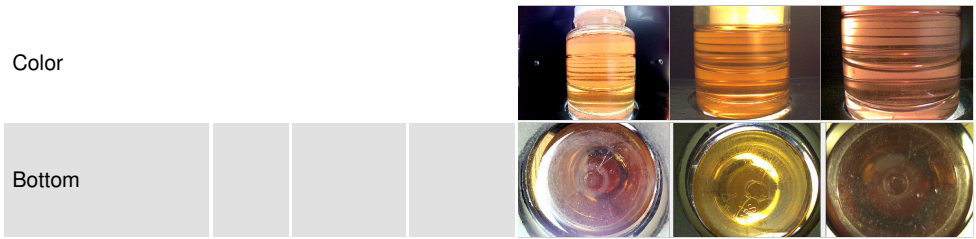
# OIL ANALYSIS REPORT



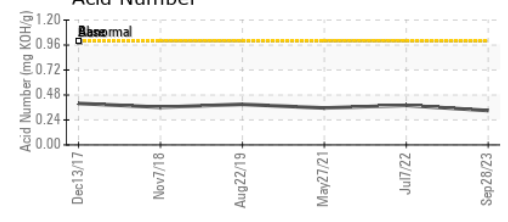
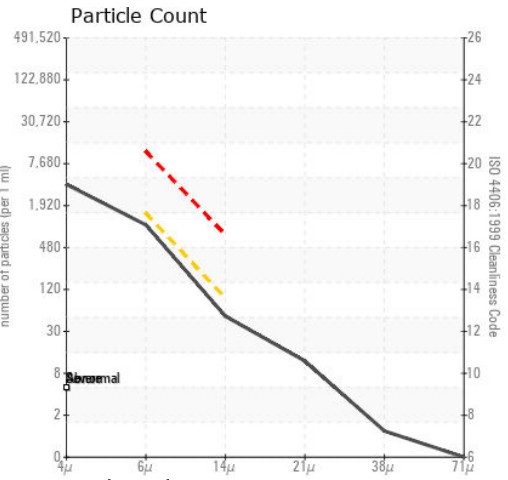
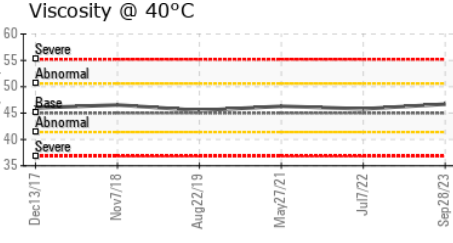
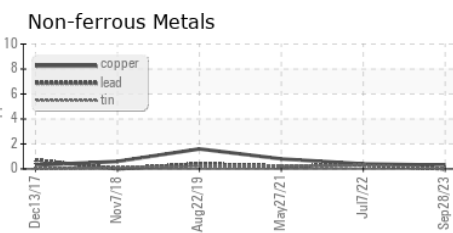
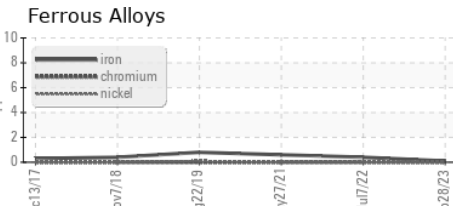
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	▲ MODER
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	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	46.7	45.8	46.3

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



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : KCPA006694 **Received** : 02 Oct 2023  
**Lab Number** : 05967042 **Diagnosed** : 04 Oct 2023  
**Unique Number** : 10673593 **Diagnostician** : Jonathan Hester  
**Test Package** : IND 2 ( Additional Tests: KF, PrtCount )

**JRB CUSTOM WORKS**  
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 KERNERSVILLE, NC  
 US 27284  
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 T: (336)996-2796  
 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)