



# OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Machine Id  
**7751428 (S/N 1115)**

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

## DIAGNOSIS

### Recommendation

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. 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>KCP46110</b>	---	---
Sample Date	Client Info	<b>09 Jan 2023</b>	---	---
Machine Age	hrs	Client Info	<b>3434</b>	---
Oil Age	hrs	Client Info	<b>2000</b>	---
Oil Changed	Client Info	<b>Changed</b>	---	---
Sample Status		<b>ABNORMAL</b>	---	---

## WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >50	<b>1</b>	---
Chromium	ppm	ASTM D5185m >10	<b>0</b>	---
Nickel	ppm	ASTM D5185m >3	<b>0</b>	---
Titanium	ppm	ASTM D5185m >3	<b>0</b>	---
Silver	ppm	ASTM D5185m >2	<b>0</b>	---
Aluminum	ppm	ASTM D5185m >10	<b>&lt;1</b>	---
Lead	ppm	ASTM D5185m >10	<b>0</b>	---
Copper	ppm	ASTM D5185m >50	<b>12</b>	---
Tin	ppm	ASTM D5185m >10	<b>0</b>	---
Vanadium	ppm	ASTM D5185m	<b>0</b>	---
Cadmium	ppm	ASTM D5185m	<b>0</b>	---

## ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 0	<b>0</b>	---
Barium	ppm	ASTM D5185m 90	<b>0</b>	---
Molybdenum	ppm	ASTM D5185m 0	<b>0</b>	---
Manganese	ppm	ASTM D5185m	<b>&lt;1</b>	---
Magnesium	ppm	ASTM D5185m 100	<b>36</b>	---
Calcium	ppm	ASTM D5185m 0	<b>0</b>	---
Phosphorus	ppm	ASTM D5185m 0	<b>5</b>	---
Zinc	ppm	ASTM D5185m 0	<b>14</b>	---
Sulfur	ppm	ASTM D5185m 23500	<b>20781</b>	---

## CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	<b>&lt;1</b>	---
Sodium	ppm	ASTM D5185m	<b>16</b>	---
Potassium	ppm	ASTM D5185m >20	<b>0</b>	---
Water	%	ASTM D6304 >0.05	<b>0.013</b>	---
ppm Water	ppm	ASTM D6304 >500	<b>139.1</b>	---

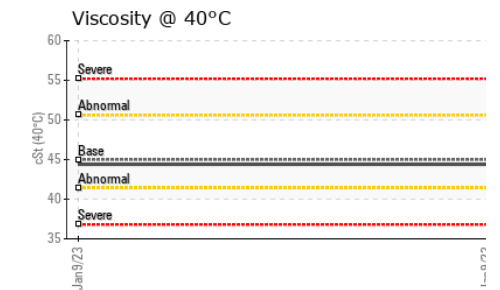
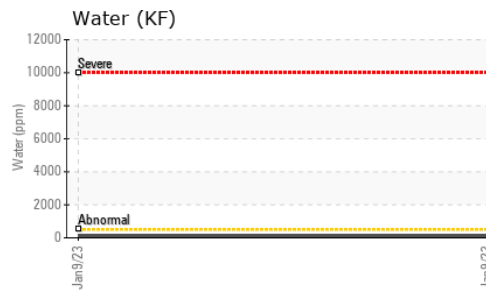
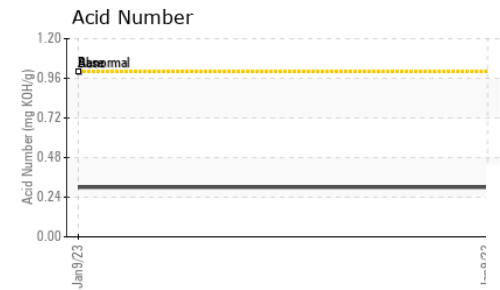
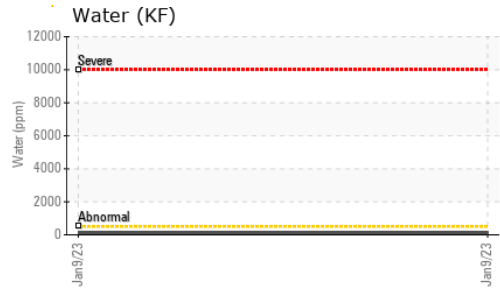
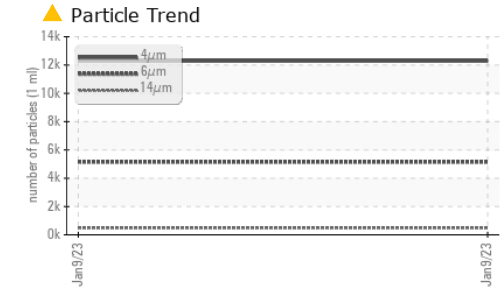
## FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	<b>12281</b>	---	---
Particles >6µm	ASTM D7647 >1300	<b>▲ 5151</b>	---	---
Particles >14µm	ASTM D7647 >80	<b>▲ 482</b>	---	---
Particles >21µm	ASTM D7647 >20	<b>▲ 109</b>	---	---
Particles >38µm	ASTM D7647 >4	<b>▲ 12</b>	---	---
Particles >71µm	ASTM D7647 >3	<b>0</b>	---	---
Oil Cleanliness	ISO 4406 (c) >--/17/13	<b>▲ 21/20/16</b>	---	---

## FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 1.0	<b>0.30</b>	---

# OIL ANALYSIS REPORT



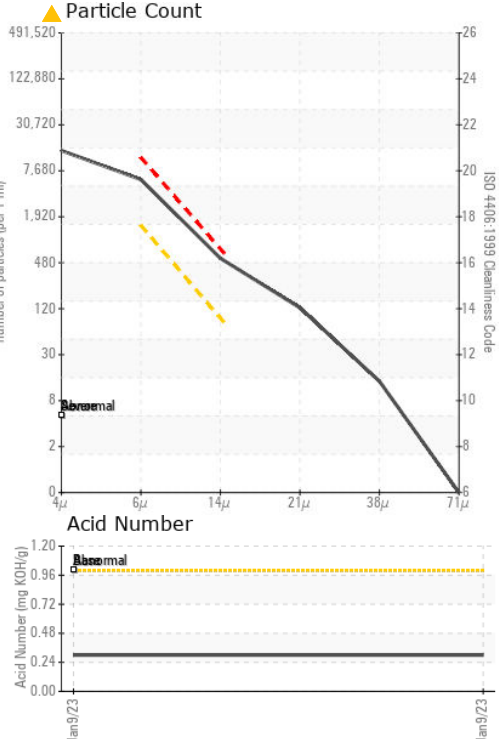
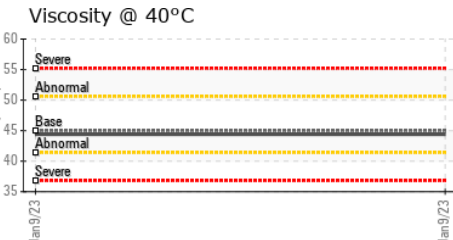
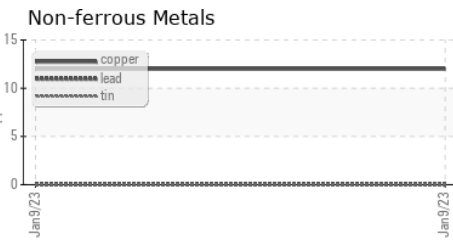
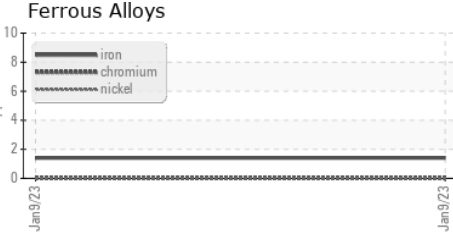
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual NONE	<b>LIGHT</b>	---	---
Yellow Metal	scalar	*Visual NONE	<b>NONE</b>	---	---
Precipitate	scalar	*Visual NONE	<b>NONE</b>	---	---
Silt	scalar	*Visual NONE	<b>NONE</b>	---	---
Debris	scalar	*Visual NONE	<b>LIGHT</b>	---	---
Sand/Dirt	scalar	*Visual NONE	<b>NONE</b>	---	---
Appearance	scalar	*Visual NORML	<b>NORML</b>	---	---
Odor	scalar	*Visual NORML	<b>NORML</b>	---	---
Emulsified Water	scalar	*Visual >0.05	<b>NEG</b>	---	---
Free Water	scalar	*Visual	<b>NEG</b>	---	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 45	<b>44.4</b>	---	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
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Color				no image	no image
Bottom				no image	no image

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : KCP46110 **Received** : 10 Jan 2023  
**Lab Number** : 05735679 **Tested** : 11 Jan 2023  
**Unique Number** : 10285277 **Diagnosed** : 12 Jan 2023 - Don Baldrige  
**Test Package** : IND 2 ( Additional Tests: KF, PrtCount )

**GANTRI**  
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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)