

# OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Machine Id  
**2565209 (S/N 1148)**

Component  
**Compressor**

Fluid  
**KAESER SIGMA (OEM) M-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>KCPA011571</b>	---	---
Sample Date	Client Info	<b>08 Jan 2024</b>	---	---
Machine Age	hrs Client Info	<b>33552</b>	---	---
Oil Age	hrs Client Info	<b>0</b>	---	---
Oil Changed	Client Info	<b>N/A</b>	---	---
Sample Status		<b>ABNORMAL</b>	---	---

## WEAR METALS

method	limit/base	current	history1	history2
Iron ppm	ASTM D5185m >50	<b>2</b>	---	---
Chromium ppm	ASTM D5185m >10	<b>&lt;1</b>	---	---
Nickel ppm	ASTM D5185m >3	<b>0</b>	---	---
Titanium ppm	ASTM D5185m >3	<b>&lt;1</b>	---	---
Silver ppm	ASTM D5185m >2	<b>0</b>	---	---
Aluminum ppm	ASTM D5185m >10	<b>2</b>	---	---
Lead ppm	ASTM D5185m >10	<b>&lt;1</b>	---	---
Copper ppm	ASTM D5185m >50	<b>10</b>	---	---
Tin ppm	ASTM D5185m >10	<b>&lt;1</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>17</b>	---	---
Molybdenum ppm	ASTM D5185m 0	<b>&lt;1</b>	---	---
Manganese ppm	ASTM D5185m	<b>1</b>	---	---
Magnesium ppm	ASTM D5185m 100	<b>47</b>	---	---
Calcium ppm	ASTM D5185m 0	<b>4</b>	---	---
Phosphorus ppm	ASTM D5185m 0	<b>52</b>	---	---
Zinc ppm	ASTM D5185m 0	<b>14</b>	---	---
Sulfur ppm	ASTM D5185m 23500	<b>21320</b>	---	---

## CONTAMINANTS

method	limit/base	current	history1	history2
Silicon ppm	ASTM D5185m >25	<b>&lt;1</b>	---	---
Sodium ppm	ASTM D5185m	<b>8</b>	---	---
Potassium ppm	ASTM D5185m >20	<b>2</b>	---	---
Water %	ASTM D6304 >0.05	<b>0.016</b>	---	---
ppm Water ppm	ASTM D6304 >500	<b>165</b>	---	---

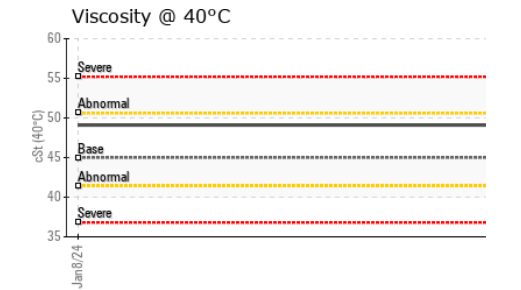
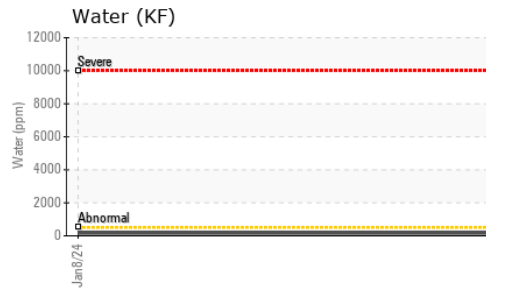
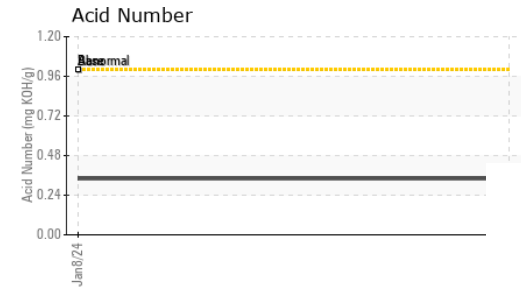
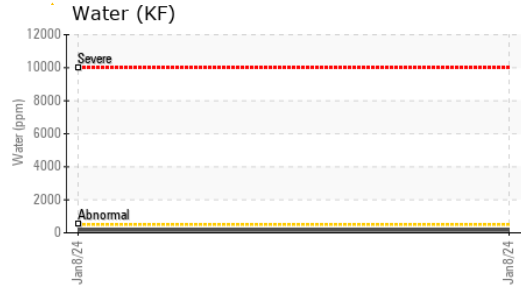
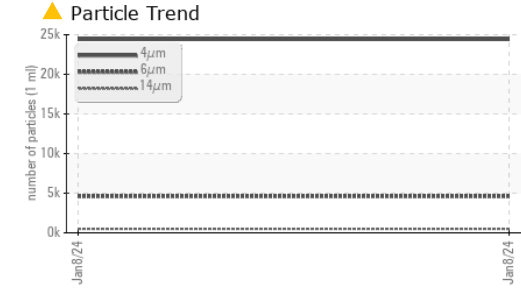
## FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	<b>24417</b>	---	---
Particles >6µm	ASTM D7647 >1300	▲ <b>4608</b>	---	---
Particles >14µm	ASTM D7647 >80	▲ <b>497</b>	---	---
Particles >21µm	ASTM D7647 >20	▲ <b>232</b>	---	---
Particles >38µm	ASTM D7647 >4	▲ <b>19</b>	---	---
Particles >71µm	ASTM D7647 >3	<b>0</b>	---	---
Oil Cleanliness	ISO 4406 (c) >--/17/13	▲ <b>22/19/16</b>	---	---

## FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN) mg KOH/g	ASTM D8045 1.0	<b>0.34</b>	---	---

# OIL ANALYSIS REPORT



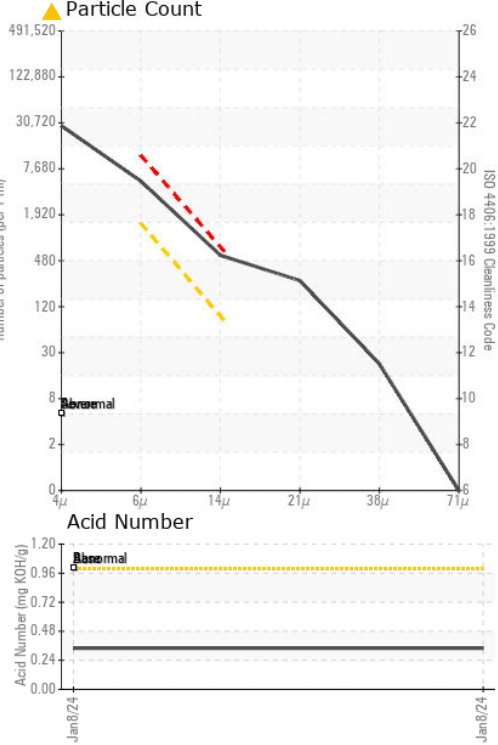
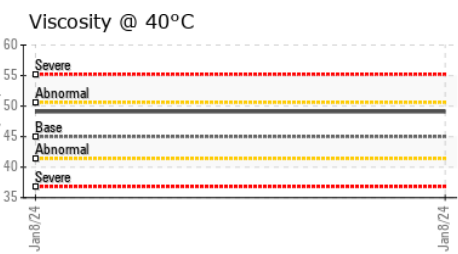
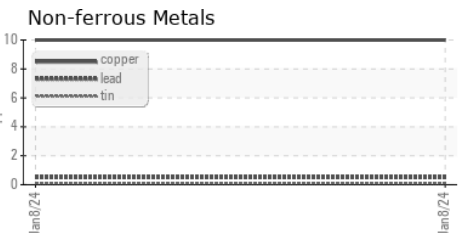
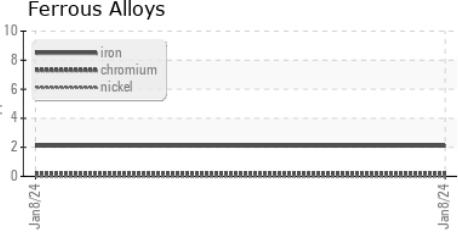
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	45	49.1	---

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.** : KCPA011571 **Received** : 18 Jan 2024  
**Lab Number** : 06065036 **Diagnosed** : 22 Jan 2024  
**Unique Number** : 10836418 **Diagnostician** : Don Baldrige  
**Test Package** : IND 2 ( Additional Tests: KF, PrtCount )

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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)