



# OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Machine Id

**9255575 (S/N 2087)**

Component

**Compressor**

Fluid

**KAESER SIGMA (OEM) S-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>KC130326</b>	---	---
Sample Date	Client Info	<b>05 Jun 2024</b>	---	---
Machine Age	hrs	Client Info	<b>3159</b>	---
Oil Age	hrs	Client Info	<b>3159</b>	---
Oil Changed	Client Info	<b>Not Chngd</b>	---	---
Sample Status		<b>ABNORMAL</b>	---	---

## WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >50	<b>0</b>	---
Chromium	ppm	ASTM D5185m >10	<b>&lt;1</b>	---
Nickel	ppm	ASTM D5185m >3	<b>&lt;1</b>	---
Titanium	ppm	ASTM D5185m >3	<b>&lt;1</b>	---
Silver	ppm	ASTM D5185m >2	<b>&lt;1</b>	---
Aluminum	ppm	ASTM D5185m >10	<b>3</b>	---
Lead	ppm	ASTM D5185m >10	<b>&lt;1</b>	---
Copper	ppm	ASTM D5185m >50	<b>7</b>	---
Tin	ppm	ASTM D5185m >10	<b>&lt;1</b>	---
Vanadium	ppm	ASTM D5185m	<b>&lt;1</b>	---
Cadmium	ppm	ASTM D5185m	<b>&lt;1</b>	---

## ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	<b>0</b>	---
Barium	ppm	ASTM D5185m 90	<b>1</b>	---
Molybdenum	ppm	ASTM D5185m	<b>&lt;1</b>	---
Manganese	ppm	ASTM D5185m	<b>&lt;1</b>	---
Magnesium	ppm	ASTM D5185m 90	<b>2</b>	---
Calcium	ppm	ASTM D5185m 2	<b>0</b>	---
Phosphorus	ppm	ASTM D5185m	<b>1</b>	---
Zinc	ppm	ASTM D5185m	<b>&lt;1</b>	---

## CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	<b>1</b>	---
Sodium	ppm	ASTM D5185m	<b>0</b>	---
Potassium	ppm	ASTM D5185m >20	<b>2</b>	---
Water	%	ASTM D6304 >0.05	<b>0.004</b>	---
ppm Water	ppm	ASTM D6304 >500	<b>46</b>	---

## FLUID CLEANLINESS

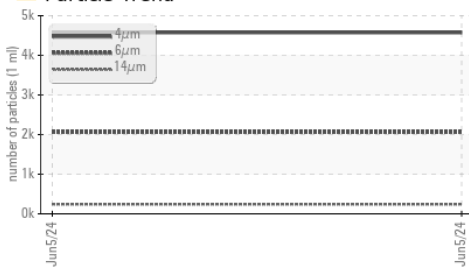
method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	<b>4574</b>	---	---
Particles >6µm	ASTM D7647 >1300	<b>▲ 2061</b>	---	---
Particles >14µm	ASTM D7647 >80	<b>▲ 241</b>	---	---
Particles >21µm	ASTM D7647 >20	<b>▲ 71</b>	---	---
Particles >38µm	ASTM D7647 >4	<b>▲ 6</b>	---	---
Particles >71µm	ASTM D7647 >3	<b>0</b>	---	---
Oil Cleanliness	ISO 4406 (c) >--/17/13	<b>▲ 19/18/15</b>	---	---

## FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 0.4	<b>0.32</b>	---

# OIL ANALYSIS REPORT

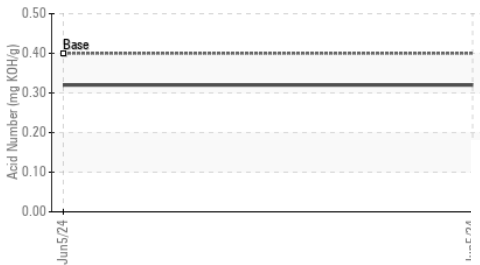
## ▲ Particle Trend



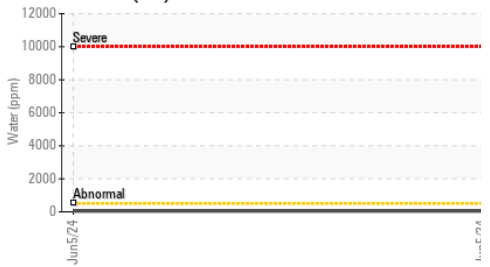
## Water (KF)



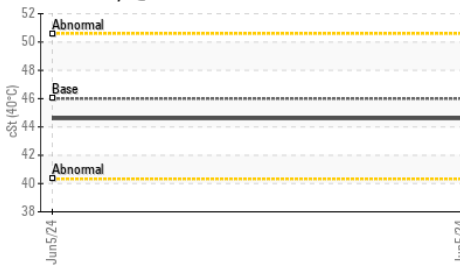
## Acid Number



## Water (KF)



## Viscosity @ 40°C



VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	<b>NONE</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>NONE</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>	---

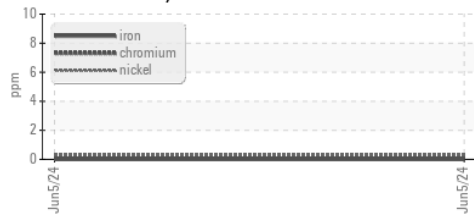
FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	46	<b>44.6</b>	---

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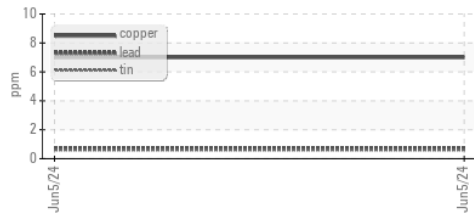
Color				no image	no image
Bottom				no image	no image

## GRAPHS

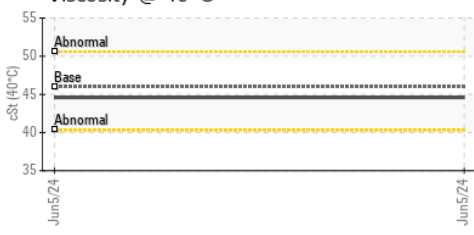
### Ferrous Alloys



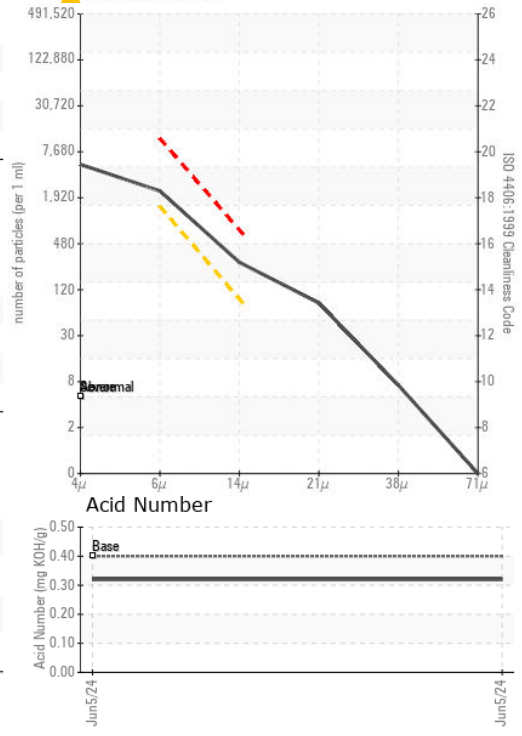
### Non-ferrous Metals



### Viscosity @ 40°C



### ▲ Particle Count



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : KC130326  
**Lab Number** : 06217315  
**Unique Number** : 11090179  
**Test Package** : IND 2  
**Received** : 21 Jun 2024  
**Tested** : 25 Jun 2024  
**Diagnosed** : 25 Jun 2024 - Don Baldrige

**WEST COAST GRAPHICS**  
 4675 LOWN ST N  
 ST PETERSBURG, FL  
 US 33714  
 Contact: Service Manager

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: