



# OIL ANALYSIS REPORT

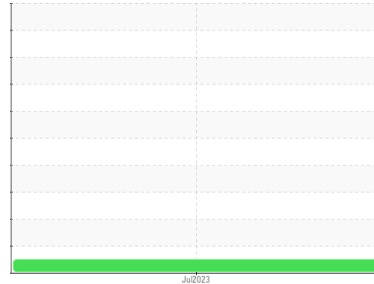
Sample Rating Trend

**NORMAL**



Area  
**[K35601]**  
Machine Id  
**S1 (S/N 1020)**

Component  
**Screw Compressor**  
Fluid  
**KAESER SIGMA (OEM) S-460 (2 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.

### 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>WC0821431</b>	---	---
Sample Date	Client Info	<b>31 Jul 2023</b>	---	---
Machine Age	hrs Client Info	<b>2100</b>	---	---
Oil Age	hrs Client Info	<b>2011</b>	---	---
Oil Changed	Client Info	<b>N/A</b>	---	---
Sample Status		<b>NORMAL</b>	---	---

## WEAR METALS

method	limit/base	current	history1	history2
Iron ppm ASTM D5185m	>60	<b>0</b>	---	---
Chromium ppm ASTM D5185m	>4	<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	>5	<b>&lt;1</b>	---	---
Lead ppm ASTM D5185m	>10	<b>0</b>	---	---
Copper ppm ASTM D5185m	>30	<b>&lt;1</b>	---	---
Tin ppm ASTM D5185m	>15	<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		<b>0</b>	---	---
Barium ppm ASTM D5185m	90	<b>7</b>	---	---
Molybdenum ppm ASTM D5185m		<b>0</b>	---	---
Manganese ppm ASTM D5185m		<b>0</b>	---	---
Magnesium ppm ASTM D5185m	90	<b>72</b>	---	---
Calcium ppm ASTM D5185m	2	<b>0</b>	---	---
Phosphorus ppm ASTM D5185m		<b>1</b>	---	---
Zinc ppm ASTM D5185m		<b>2</b>	---	---
Sulfur ppm ASTM D5185m		<b>18533</b>	---	---

## CONTAMINANTS

method	limit/base	current	history1	history2
Silicon ppm ASTM D5185m	>50	<b>&lt;1</b>	---	---
Sodium ppm ASTM D5185m		<b>12</b>	---	---
Potassium ppm ASTM D5185m	>20	<b>2</b>	---	---

## FLUID DEGRADATION

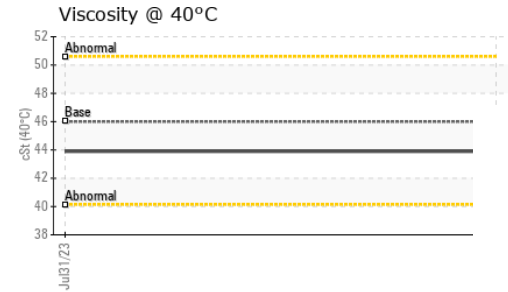
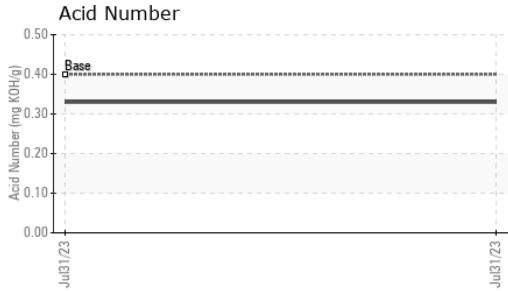
method	limit/base	current	history1	history2
Acid Number (AN) mg KOH/g ASTM D8045	0.4	<b>0.33</b>	---	---

## 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>	---	---




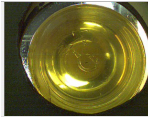
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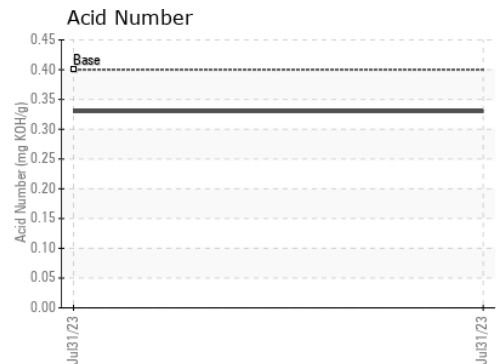
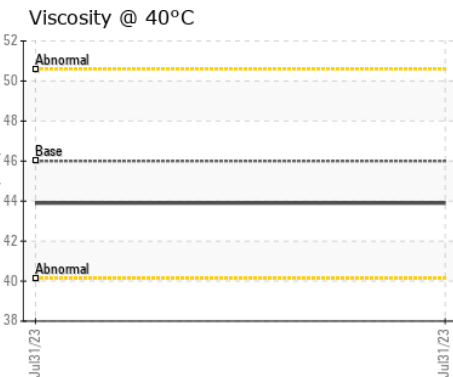
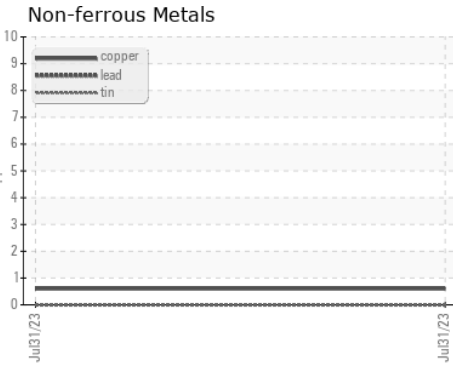
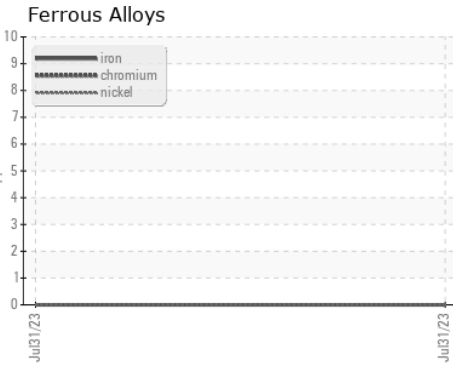
FLUID PROPERTIES	method	limit/base	current	history1	history2
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Visc @ 40°C	cSt	ASTM D445	46	<b>43.9</b>	---	---
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SAMPLE IMAGES	method	limit/base	current	history1	history2
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Color					no image	no image
Bottom					no image	no image

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0821431     **Received** : 15 Aug 2023  
**Lab Number** : **05924932**     **Diagnosed** : 16 Aug 2023  
**Unique Number** : 10604879     **Diagnostician** : Jonathan Hester  
**Test Package** : PLANT

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)

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