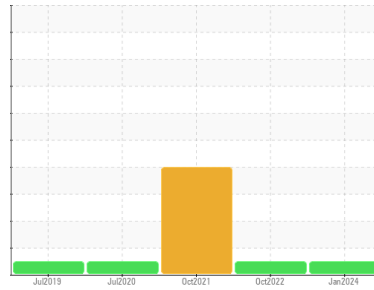




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Area  
**SYNOIL 8K**  
 Machine Id  
**KAESER ASD 30 1023 - AIROLDI BROTHERS**  
 Component  
**Compressor**

## 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>UCZ06057423</b>	UCZ05703776	UCZ05382081
Sample Date	Client Info		<b>04 Jan 2024</b>	31 Oct 2022	13 Oct 2021
Machine Age	hrs	Client Info	<b>53668</b>	53332	50551
Oil Age	hrs	Client Info	<b>350</b>	3000	600
Oil Changed	Client Info		<b>Changed</b>	Changed	Changed
Sample Status			<b>NORMAL</b>	NORMAL	ATTENTION

## CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>0.05	<b>NEG</b>	NEG	NEG

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >50	<b>5</b>	3	2
Chromium	ppm	ASTM D5185m >10	<b>0</b>	0	<1
Nickel	ppm	ASTM D5185m >3	<b>0</b>	0	<1
Titanium	ppm	ASTM D5185m >3	<b>0</b>	0	0
Silver	ppm	ASTM D5185m >2	<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185m >10	<b>2</b>	2	<1
Lead	ppm	ASTM D5185m >10	<b>0</b>	0	<1
Copper	ppm	ASTM D5185m >50	<b>1</b>	<1	3
Tin	ppm	ASTM D5185m >10	<b>0</b>	0	<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 0.3	<b>0</b>	0	<1
Barium	ppm	ASTM D5185m 0.3	<b>0</b>	2	<1
Molybdenum	ppm	ASTM D5185m 0	<b>0</b>	0	0
Manganese	ppm	ASTM D5185m 0.9	<b>0</b>	<1	<1
Magnesium	ppm	ASTM D5185m 0.2	<b>4</b>	1	1
Calcium	ppm	ASTM D5185m 0.1	<b>&lt;1</b>	<1	0
Phosphorus	ppm	ASTM D5185m 429	<b>437</b>	393	309
Zinc	ppm	ASTM D5185m 0.3	<b>184</b>	118	44
Sulfur	ppm	ASTM D5185m 1336	<b>333</b>	577	1105

## CONTAMINANTS

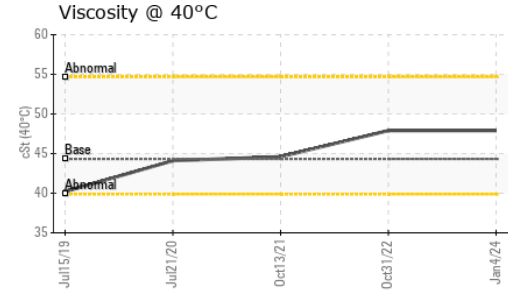
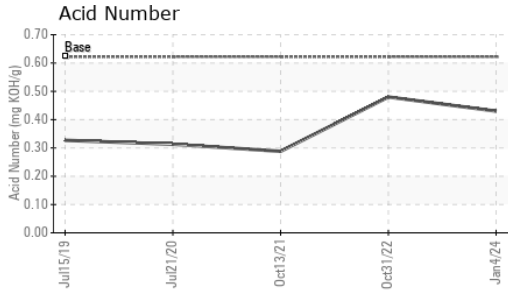
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	<b>3</b>	4	4
Sodium	ppm	ASTM D5185m	<b>0</b>	4	1
Potassium	ppm	ASTM D5185m >20	<b>1</b>	0	0

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 0.622	<b>0.43</b>	0.48	0.288



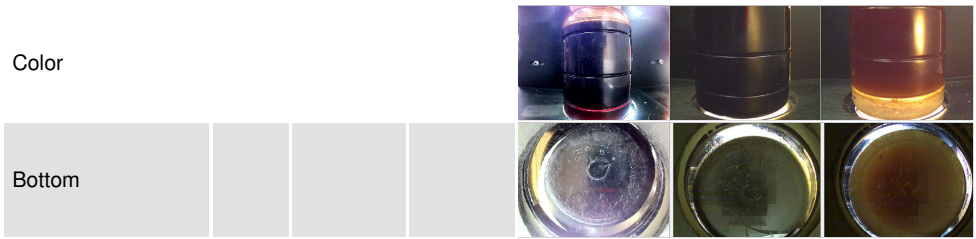
# OIL ANALYSIS REPORT



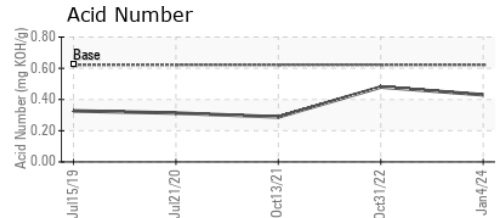
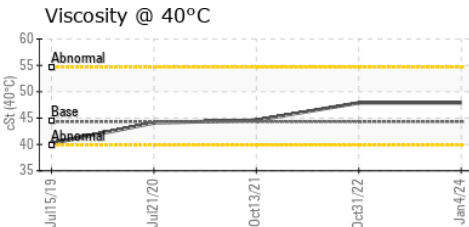
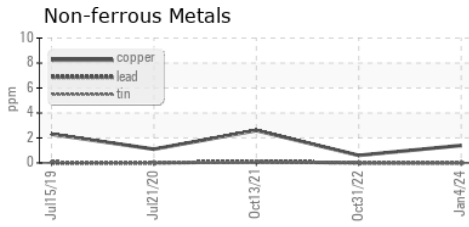
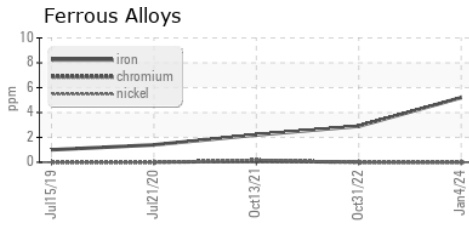
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE
Precipitate	scalar	*Visual	NONE	<b>NONE</b>	NONE
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML ▲ HAZY
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML
Emulsified Water	scalar	*Visual	>0.05	<b>NEG</b>	NEG
Free Water	scalar	*Visual		<b>NEG</b>	NEG ▲ 10.0

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	44.32	<b>47.9</b>	47.9

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



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : UCZ06057423 **Recieved** : 10 Jan 2024  
**Lab Number** : 06057423 **Diagnosed** : 12 Jan 2024  
**Unique Number** : 10823372 **Diagnostician** : Don Baldrige  
**Test Package** : IND 2

**ZORN COMP & EQUIPMENT INC - MAIN**  
 1335 E WISCONSIN AVE  
 PEWAUKEE, WI  
 US 53072  
 Contact: CHRIS BOCK  
 Chris.Bock@zornair.com  
 T: (800)476-4637  
 F: (262)695-7017

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)