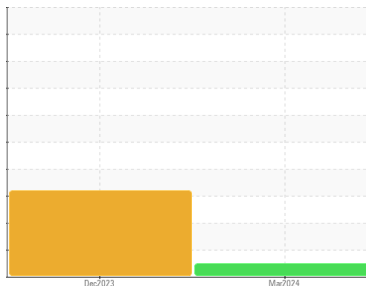




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Area

**SYNOIL 8K**

Machine Id

**ATLAS COPCO G160VSD WUX416259 - FOX RIVER VALLEY ETHANOL**

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>UCZ06144421</b>	UCZ06036182	---
Sample Date	Client Info			<b>28 Mar 2024</b>	05 Dec 2023	---
Machine Age	hrs	Client Info		<b>27338</b>	24603	---
Oil Age	hrs	Client Info		<b>5006</b>	2271	---
Oil Changed	Client Info			<b>N/A</b>	N/A	---
Sample Status				<b>NORMAL</b>	ATTENTION	---

CONTAMINATION		method	limit/base	current	history1	history2
Water	WC Method		>0.1	<b>NEG</b>	NEG	---

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	<b>&lt;1</b>	5	---
Chromium	ppm	ASTM D5185m	>5	<b>0</b>	0	---
Nickel	ppm	ASTM D5185m		<b>0</b>	0	---
Titanium	ppm	ASTM D5185m		<b>0</b>	0	---
Silver	ppm	ASTM D5185m		<b>0</b>	0	---
Aluminum	ppm	ASTM D5185m	>15	<b>&lt;1</b>	0	---
Lead	ppm	ASTM D5185m	>65	<b>0</b>	0	---
Copper	ppm	ASTM D5185m	>65	<b>1</b>	<1	---
Tin	ppm	ASTM D5185m	>10	<b>&lt;1</b>	0	---
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	---
Cadmium	ppm	ASTM D5185m		<b>0</b>	0	---

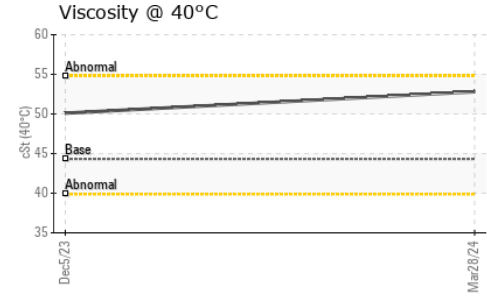
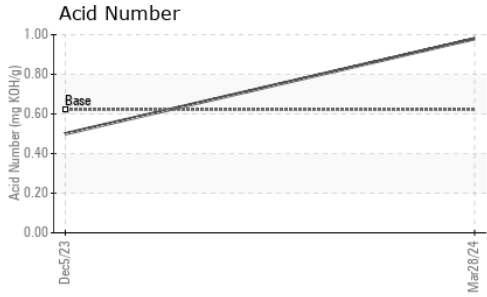
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0.3	<b>0</b>	0	---
Barium	ppm	ASTM D5185m	0.3	<b>&lt;1</b>	0	---
Molybdenum	ppm	ASTM D5185m	0	<b>0</b>	0	---
Manganese	ppm	ASTM D5185m	0.9	<b>&lt;1</b>	0	---
Magnesium	ppm	ASTM D5185m	0.2	<b>&lt;1</b>	0	---
Calcium	ppm	ASTM D5185m	0.1	<b>&lt;1</b>	0	---
Phosphorus	ppm	ASTM D5185m	429	<b>239</b>	293	---
Zinc	ppm	ASTM D5185m	0.3	<b>0</b>	8	---
Sulfur	ppm	ASTM D5185m	1336	<b>604</b>	842	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>35	<b>0</b>	<1	---
Sodium	ppm	ASTM D5185m		<b>1</b>	1	---
Potassium	ppm	ASTM D5185m	>20	<b>0</b>	0	---

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.622	<b>0.98</b>	0.50	---



# OIL ANALYSIS REPORT



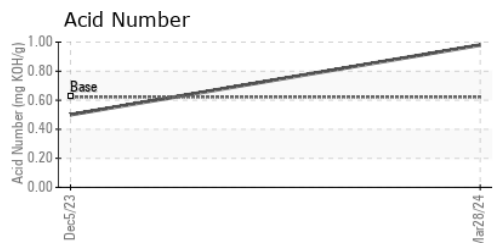
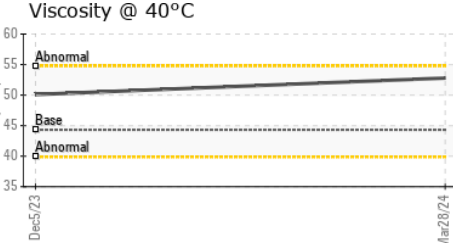
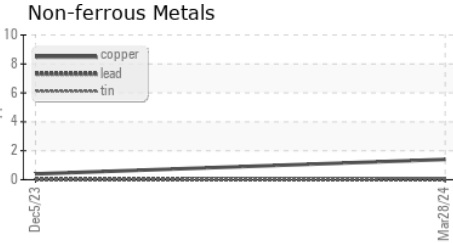
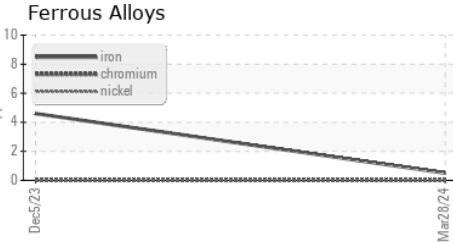
VISUAL	method	limit/base	current	history1	history2	
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Precipitate	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Silt	scalar	*Visual	NONE	<b>NONE</b>	MODER	---
Debris	scalar	*Visual	NONE	<b>NONE</b>	MODER	---
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	---
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	---
Emulsified Water	scalar	*Visual	>0.1	<b>NEG</b>	0.2%	---
Free Water	scalar	*Visual		<b>NEG</b>	10.0	---

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D445	44.32	<b>52.8</b>	50.1	---

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

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : UCZ06144421      **Received** : 10 Apr 2024  
**Lab Number** : **06144421**      **Tested** : 16 Apr 2024  
**Unique Number** : 10969229      **Diagnosed** : 16 Apr 2024 - Don Baldrige  
**Test Package** : IND 2

**ZORN COMP & EQUIPMENT CO (GB)**  
 733 POTTS AVE  
 GREEN BAY, WI  
 US 54304  
 Contact: DEAN SCHAD  
 dean.schad@zornair.com  
 T: (920)391-8121  
 F: (920)499-1168

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)