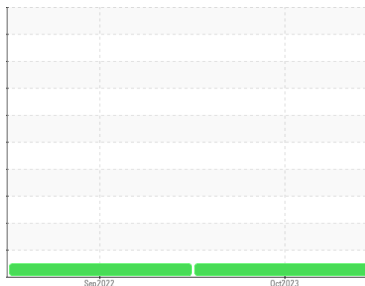




# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Area  
**Synoil 4K**  
 Machine Id  
**1127 - DS ENTERPRISE**  
 Component  
**Compressor**

## DIAGNOSIS

### Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### Contamination

Moderate concentration of visible dirt/debris 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>UCZ05982492</b>	UCZ05659074	---
Sample Date	Client Info		<b>12 Oct 2023</b>	28 Sep 2022	---
Machine Age	hrs	Client Info	<b>22762</b>	72539	---
Oil Age	hrs	Client Info	<b>223</b>	1017	---
Oil Changed	Client Info		<b>N/A</b>	N/A	---
Sample Status			<b>NORMAL</b>	NORMAL	---

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >50	<b>4</b>	1	---
Chromium	ppm	ASTM D5185m >5	<b>0</b>	0	---
Nickel	ppm	ASTM D5185m	<b>0</b>	0	---
Titanium	ppm	ASTM D5185m	<b>&lt;1</b>	0	---
Silver	ppm	ASTM D5185m	<b>0</b>	0	---
Aluminum	ppm	ASTM D5185m >15	<b>0</b>	0	---
Lead	ppm	ASTM D5185m >65	<b>0</b>	0	---
Copper	ppm	ASTM D5185m >65	<b>3</b>	9	---
Tin	ppm	ASTM D5185m >10	<b>0</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	<b>0</b>	0	---
Barium	ppm	ASTM D5185m 1.2	<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185m 0.1	<b>0</b>	0	---
Manganese	ppm	ASTM D5185m 1.3	<b>&lt;1</b>	0	---
Magnesium	ppm	ASTM D5185m 0	<b>0</b>	0	---
Calcium	ppm	ASTM D5185m 8.2	<b>0</b>	0	---
Phosphorus	ppm	ASTM D5185m 447	<b>995</b>	845	---
Zinc	ppm	ASTM D5185m 0	<b>4</b>	0	---
Sulfur	ppm	ASTM D5185m 436	<b>1265</b>	2564	---

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >35	<b>5</b>	5	---
Sodium	ppm	ASTM D5185m	<b>&lt;1</b>	0	---
Potassium	ppm	ASTM D5185m >20	<b>0</b>	0	---

## FLUID DEGRADATION

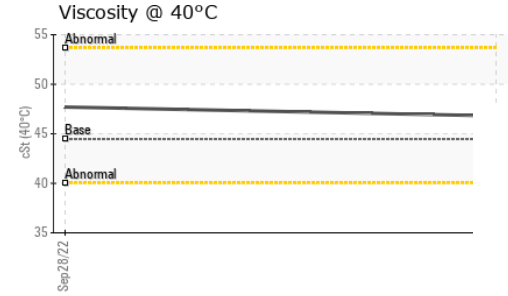
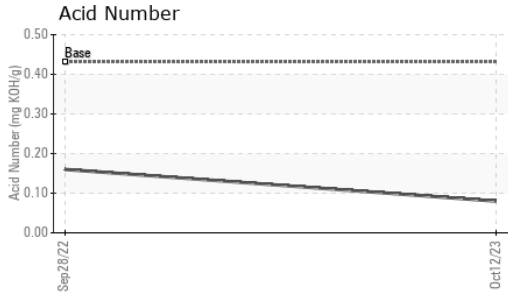
	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 0.431	<b>0.08</b>	0.16	---

## VISUAL

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



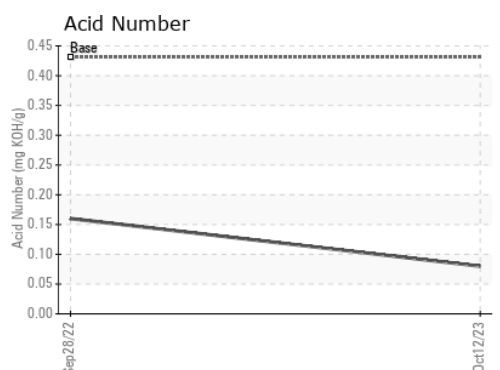
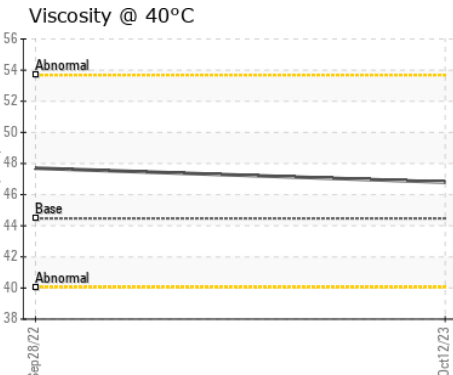
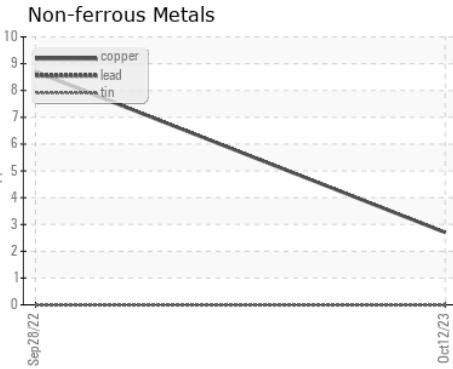
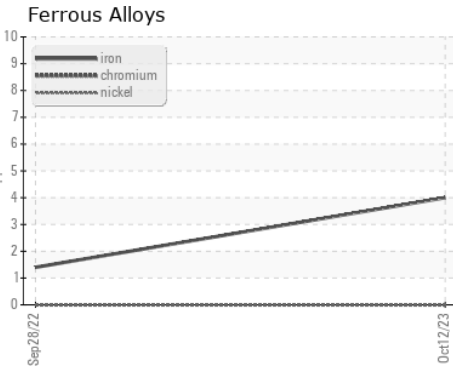
# OIL ANALYSIS REPORT



FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D445	44.47	46.8	47.7	---

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

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : UCZ05982492 **Received** : 18 Oct 2023  
**Lab Number** : 05982492 **Diagnosed** : 20 Oct 2023  
**Unique Number** : 10699787 **Diagnostician** : 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

Certificate L2367  
 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)