

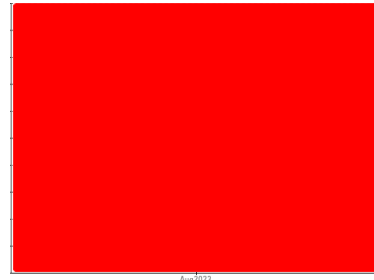


# PROBLEM SUMMARY

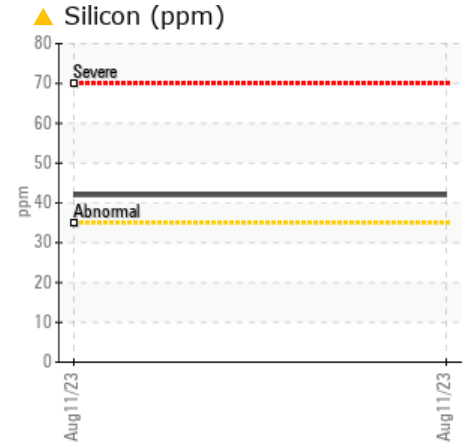
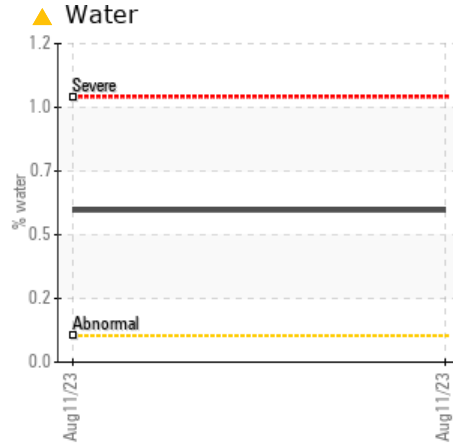
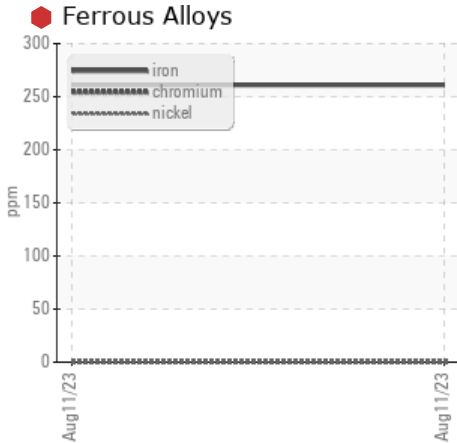
Sample Rating Trend

WEAR

Area  
**ROTAIR PLUS [144196]**  
 Machine Id  
**CHICAGO PNEUMATIC QRS-15-HPD CAI804113 - DYNAMIC FAB AND FITNESS**  
 Component  
**Compressor**



## COMPONENT CONDITION SUMMARY



## RECOMMENDATION

We recommend that you drain the oil from the component if this has not already been done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

## PROBLEMATIC TEST RESULTS

Sample Status				SEVERE	---	---
Iron	ppm	ASTM D5185m	>50	261	---	---
Silicon	ppm	ASTM D5185m	>35	42	---	---
Water	%	ASTM D6304	>0.1	0.572	---	---
ppm Water	ppm	ASTM D6304	>1000	5720	---	---
Silt	scalar	*Visual	NONE	MODER	---	---

Customer Id: UCZOREAU  
 Sample No.: UCZ05937338  
 Lab Number: 05937338  
 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:  
 Doug Bogart +1 (800)237-1369 x4016  
[dougb@wearcheckusa.com](mailto:dougb@wearcheckusa.com)

To change component or sample information:  
 Customer Service +1 1-800-237-1369  
[customerservice@wearcheck.com](mailto:customerservice@wearcheck.com)

## RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Inspect Wear Source	---	---	?	We advise that you inspect for the source(s) of wear.
Change Fluid	---	---	?	We recommend that you drain the oil from the component if this has not already been done.
Resample	---	---	?	We recommend an early resample to monitor this condition.

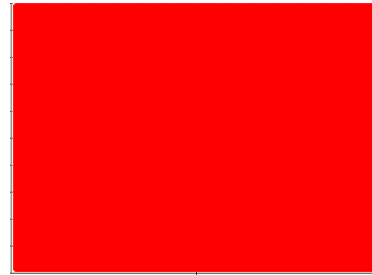
## HISTORICAL DIAGNOSIS



# OIL ANALYSIS REPORT

Sample Rating Trend

WEAR



Area  
**ROT AIR PLUS [144196]**  
 Machine Id  
**CHICAGO PNEUMATIC QRS-15-HPD CAI804113 - DYNAMIC FAB AND FITNESS**  
 Component  
**Compressor**

## DIAGNOSIS

### Recommendation

We recommend that you drain the oil from the component if this has not already been done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

### Wear

The iron level is severe.

### Contamination

There is a moderate concentration of water present in the oil. Elemental level of silicon (Si) above normal. There is a moderate amount of visible silt present in the sample.

### Fluid Condition

The AN level is acceptable for this fluid. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>UCZ05937338</b>	---	---
Sample Date	Client Info		<b>11 Aug 2023</b>	---	---
Machine Age	hrs	Client Info	<b>16373</b>	---	---
Oil Age	hrs	Client Info	<b>431</b>	---	---
Oil Changed	Client Info		<b>N/A</b>	---	---
Sample Status			<b>SEVERE</b>	---	---

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >50	<b>261</b>	---	---
Chromium	ppm	ASTM D5185m >5	<b>&lt;1</b>	---	---
Nickel	ppm	ASTM D5185m	<b>&lt;1</b>	---	---
Titanium	ppm	ASTM D5185m	<b>&lt;1</b>	---	---
Silver	ppm	ASTM D5185m	<b>0</b>	---	---
Aluminum	ppm	ASTM D5185m >15	<b>2</b>	---	---
Lead	ppm	ASTM D5185m >65	<b>&lt;1</b>	---	---
Copper	ppm	ASTM D5185m >65	<b>4</b>	---	---
Tin	ppm	ASTM D5185m >10	<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>3</b>	---	---
Barium	ppm	ASTM D5185m	<b>13</b>	---	---
Molybdenum	ppm	ASTM D5185m	<b>0</b>	---	---
Manganese	ppm	ASTM D5185m	<b>2</b>	---	---
Magnesium	ppm	ASTM D5185m	<b>4</b>	---	---
Calcium	ppm	ASTM D5185m	<b>12</b>	---	---
Phosphorus	ppm	ASTM D5185m	<b>418</b>	---	---
Zinc	ppm	ASTM D5185m	<b>196</b>	---	---
Sulfur	ppm	ASTM D5185m	<b>725</b>	---	---

## CONTAMINANTS

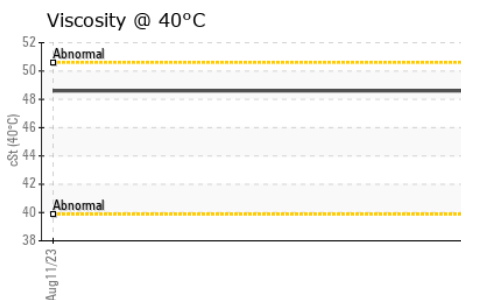
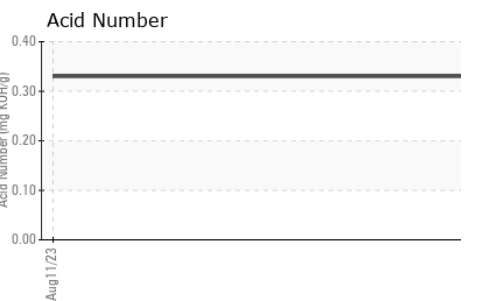
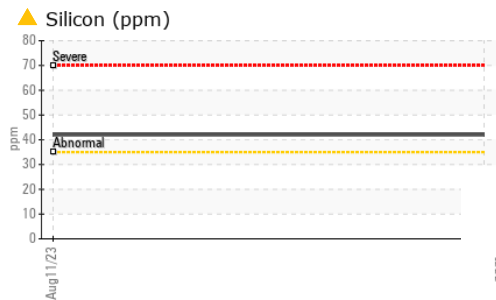
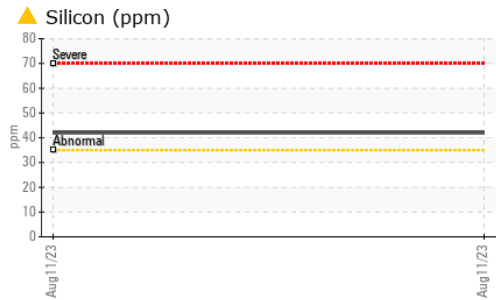
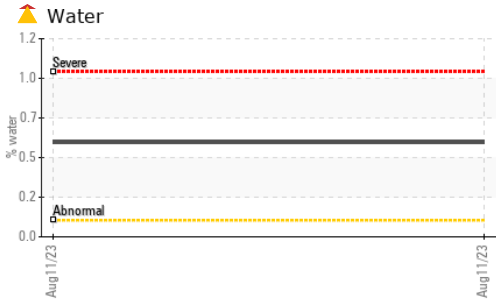
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >35	<b>42</b>	---	---
Sodium	ppm	ASTM D5185m	<b>4</b>	---	---
Potassium	ppm	ASTM D5185m >20	<b>&lt;1</b>	---	---
Water	%	ASTM D6304 >0.1	<b>0.572</b>	---	---
ppm Water	ppm	ASTM D6304 >1000	<b>5720</b>	---	---

## FLUID DEGRADATION

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



# OIL ANALYSIS REPORT



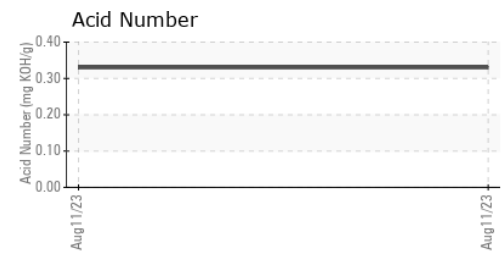
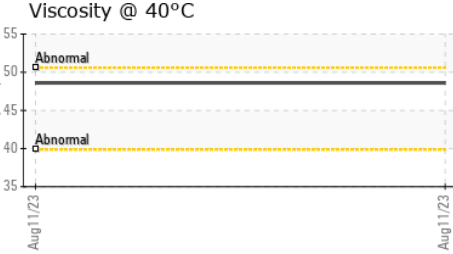
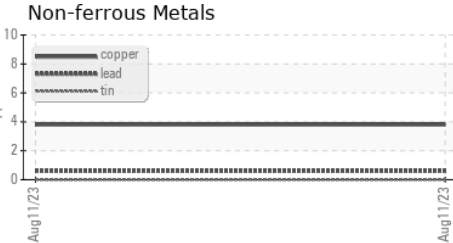
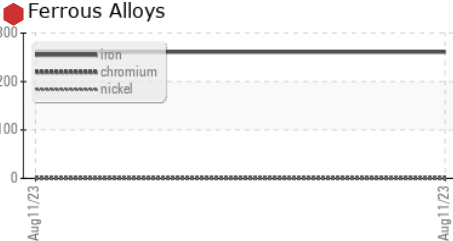
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	▲ MODER	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	48.6	---	---

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

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : UCZ05937338 **Received** : 29 Aug 2023  
**Lab Number** : 05937338 **Diagnosed** : 30 Aug 2023  
**Unique Number** : 10622609 **Diagnostician** : Doug Bogart  
**Test Package** : IND 2 ( Additional Tests: KF )

**ZORN COMP & EQUIPMENT INC - EAU CLAIRE**  
 2218-D TRUAX BLVD  
 EAU CLAIRE, WI  
 US 54703  
 Contact: BILL MESTELLE  
 bill.mestelle@zornair.com  
 T: (715)830-5292  
 F:

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)