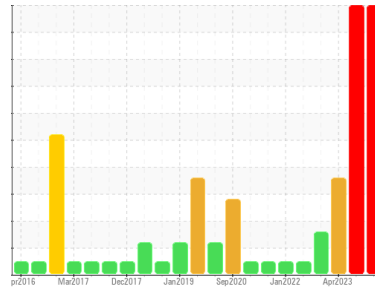




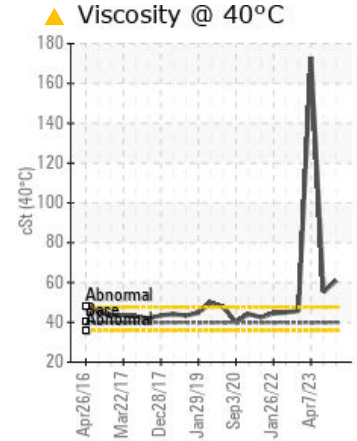
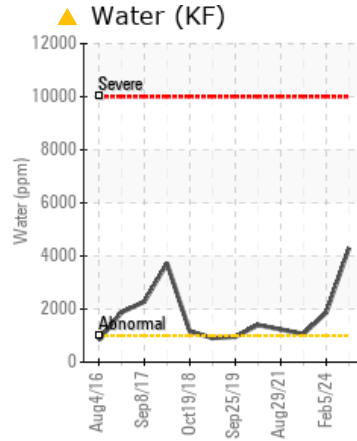
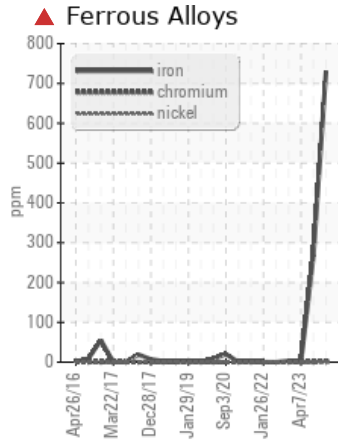
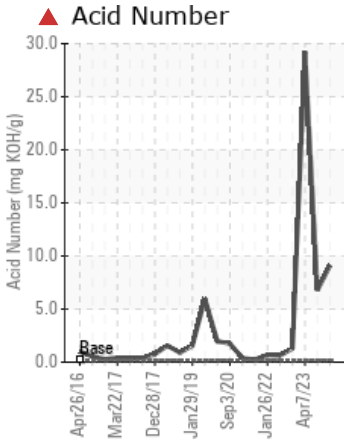
# PROBLEM SUMMARY

Area  
**SYNOIL 825 [165859]**  
 Machine Id  
**SULLAIR 200604220056 - J&M PLATING INC**  
 Component  
**Compressor**

Sample Rating Trend



## COMPONENT CONDITION SUMMARY



## RECOMMENDATION

Recommend drain oil if not already done and flush with cleaner before refilling with oil. 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	SEVERE	SEVERE
Iron	ppm	ASTM D5185m	>50	▲ 731	▲ 268	<1
Water	%	ASTM D6304	>0.1	▲ 0.430	▲ 0.187	---
ppm Water	ppm	ASTM D6304	>1000	▲ 4300	▲ 1870	---
Acid Number (AN)	mg KOH/g	ASTM D8045	0.172	▲ 9.093	▲ 6.781	▲ 29.19
Silt	scalar	*Visual	NONE	▲ MODER	NONE	NONE
Visc @ 40°C	cSt	ASTM D445	39.9	▲ 61.1	▲ 55.2	▲ 173

Customer Id: UCZORGUR  
 Sample No.: UCZ06184425  
 Lab Number: 06184425  
 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:  
 Don Baldrige +1  
[don.b505@comcast.net](mailto:don.b505@comcast.net)

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	---	---	?	Recommend drain oil if not already done and flush with cleaner before refilling with oil.
Flush System	---	---	?	Recommend drain oil if not already done and flush with cleaner before refilling with oil.
Resample	---	---	?	We recommend an early resample to monitor this condition.

## HISTORICAL DIAGNOSIS

### WEAR



#### 05 Feb 2024 Diag: Doug Bogart

Recommend drain oil if not already done and flush with cleaner before refilling with oil. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. The iron level is severe. There is a light concentration of water present in the oil. The AN level is above the recommended limit. The oil viscosity is higher than normal. TAN level indicates possible presence of varnish.

[view report](#)



### DEGRADATION



#### 07 Apr 2023 Diag: Doug Bogart

Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition. All component wear rates are normal. There is no indication of any contamination in the oil. The oil viscosity is higher than normal. The AN level is above the recommended limit. TAN level indicates possible presence of varnish. The oil is no longer serviceable.

[view report](#)



### WATER



#### 20 Dec 2022 Diag: Doug Bogart

We advise that you follow the water drain-off procedure for this component. The filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. There is a light concentration of water present in the oil. Free water present. Moderate concentration of visible dirt/debris present in the oil. An increase in the AN level is noted. The AN level is acceptable for this fluid.

[view report](#)

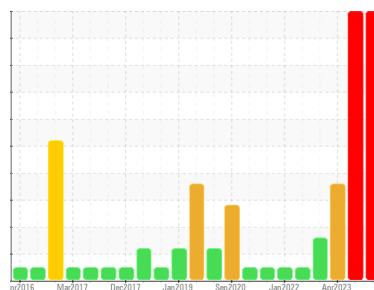




# OIL ANALYSIS REPORT

Area  
**SYNOIL 825 [165859]**  
 Machine Id  
**SULLAIR 200604220056 - J&M PLATING INC**  
 Component  
**Compressor**

Sample Rating Trend



## DIAGNOSIS

### ▲ Recommendation

Recommend drain oil if not already done and flush with cleaner before refilling with oil. 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 light concentration of water present in the oil. Moderate concentration of visible dirt/debris present in the oil.

### ▲ Fluid Condition

The AN level is above the recommended limit. The oil viscosity is higher than normal. TAN level indicates possible presence of varnish.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>UCZ06184425</b>	UCZ06093125	UCZ05836795
Sample Date	Client Info		<b>09 May 2024</b>	05 Feb 2024	07 Apr 2023
Machine Age	hrs	Client Info	<b>38229</b>	36010	131611
Oil Age	hrs	Client Info	<b>2000</b>	5000	5000
Oil Changed	Client Info		<b>Not Chngd</b>	Not Chngd	Changed
Sample Status			<b>SEVERE</b>	SEVERE	SEVERE

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >50	<b>▲ 731</b>	▲ 268	<1
Chromium	ppm	ASTM D5185m >10	<b>1</b>	<1	0
Nickel	ppm	ASTM D5185m	<b>2</b>	0	0
Titanium	ppm	ASTM D5185m	<b>&lt;1</b>	<1	0
Silver	ppm	ASTM D5185m	<b>&lt;1</b>	0	0
Aluminum	ppm	ASTM D5185m >25	<b>5</b>	3	0
Lead	ppm	ASTM D5185m >25	<b>4</b>	2	0
Copper	ppm	ASTM D5185m >50	<b>26</b>	11	1
Tin	ppm	ASTM D5185m >15	<b>&lt;1</b>	0	0
Vanadium	ppm	ASTM D5185m	<b>&lt;1</b>	0	0
Cadmium	ppm	ASTM D5185m	<b>&lt;1</b>	0	0

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 0.0	<b>&lt;1</b>	<1	0
Barium	ppm	ASTM D5185m 0.0	<b>0</b>	10	0
Molybdenum	ppm	ASTM D5185m 0	<b>&lt;1</b>	0	0
Manganese	ppm	ASTM D5185m 0	<b>2</b>	0	0
Magnesium	ppm	ASTM D5185m 0.0	<b>&lt;1</b>	<1	2
Calcium	ppm	ASTM D5185m 0.0	<b>5</b>	2	0
Phosphorus	ppm	ASTM D5185m 966	<b>149</b>	181	65
Zinc	ppm	ASTM D5185m 0	<b>118</b>	58	3
Sulfur	ppm	ASTM D5185m 1309	<b>193</b>	229	216

## CONTAMINANTS

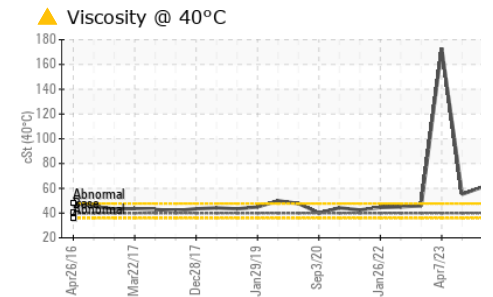
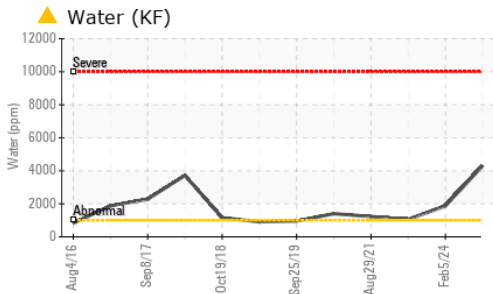
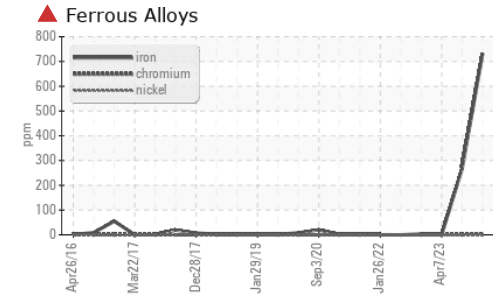
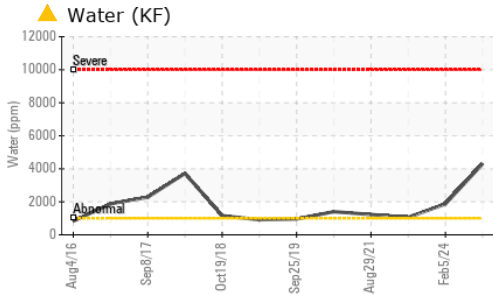
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	<b>1</b>	0	<1
Sodium	ppm	ASTM D5185m	<b>5</b>	0	1
Potassium	ppm	ASTM D5185m >20	<b>2</b>	1	<1
Water	%	ASTM D6304 >0.1	<b>▲ 0.430</b>	▲ 0.187	---
ppm Water	ppm	ASTM D6304 >1000	<b>▲ 4300</b>	▲ 1870	---

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 0.172	<b>▲ 9.093</b>	▲ 6.781	▲ 29.19



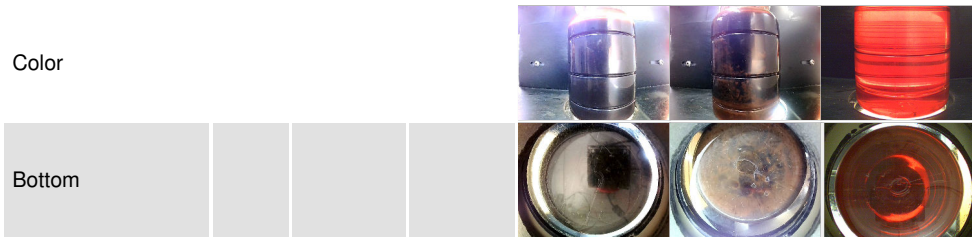
# OIL ANALYSIS REPORT



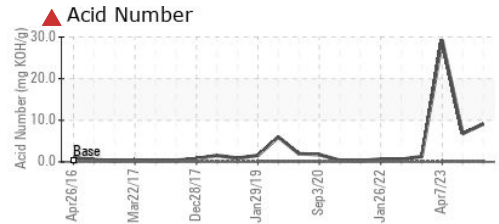
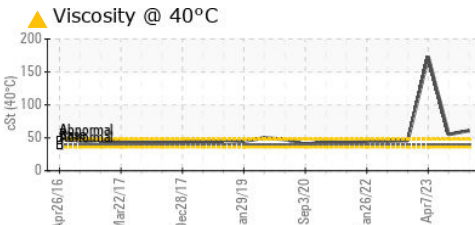
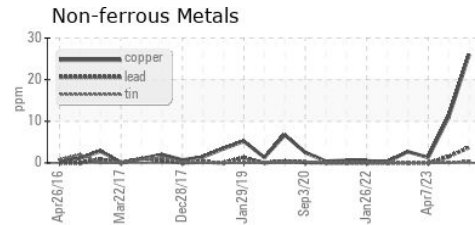
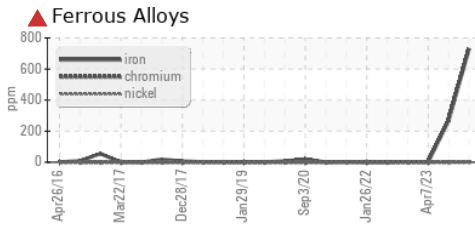
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	▲ MODER	NONE
Debris	scalar	*Visual	NONE	NONE	LIGHT
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance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

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D445	39.9	▲ 61.1	▲ 55.2	▲ 173

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



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : UCZ06184425      **Received** : 20 May 2024  
**Lab Number** : 06184425      **Tested** : 21 May 2024  
**Unique Number** : 11035751      **Diagnosed** : 22 May 2024 - Don Baldrige  
**Test Package** : IND 2 ( Additional Tests: KF )

**ZORN COMPRESSOR EQUIPMENT**  
 227 AMBROSIO DR, SUITE A  
 GURNEE, IL  
 US 60031  
 Contact: Rachel Pesnikov  
 rachel.pesnikov@zornair.com  
 T: (847)599-1333  
 F: x:

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)