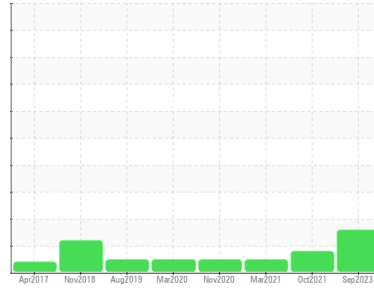




# PROBLEM SUMMARY

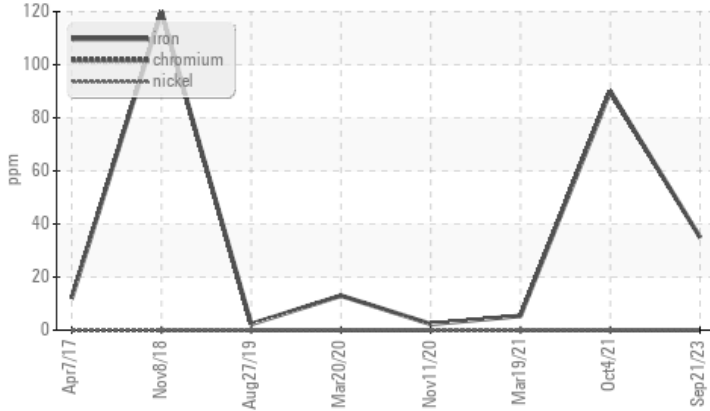
Sample Rating Trend



Area  
**MECH ROOM**  
 Machine Id  
**SULLAIR 2C (S/N 007-0200092)**  
 Component  
**Refrigeration Compressor**  
 Fluid  
**REFRIG COMP OIL ISO 68 (120 GAL)**

## COMPONENT CONDITION SUMMARY

### ▲ Ferrous Alloys



## RECOMMENDATION

We recommend you service the filters on this component.

## PROBLEMATIC TEST RESULTS

Sample Status				ABNORMAL	ABNORMAL	NORMAL
Iron	ppm	ASTM D5185m	>8	▲ 35	▲ 90	5
Silt	scalar	*Visual	NONE	▲ MODER	NONE	NONE

Customer Id: HBLLYO  
 Sample No.: WC0854650  
 Lab Number: 05962262  
 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
Change Filter	---	---	?	We recommend you service the filters on this component.

## HISTORICAL DIAGNOSIS

### 04 Oct 2021 Diag: Jonathan Hester

#### WEAR



Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition. The iron level is abnormal. All other component wear rates are normal. There is no indication of any contamination in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report



### 19 Mar 2021 Diag: Don Baldrige

#### NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report



### 11 Nov 2020 Diag: Jonathan Hester

#### NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

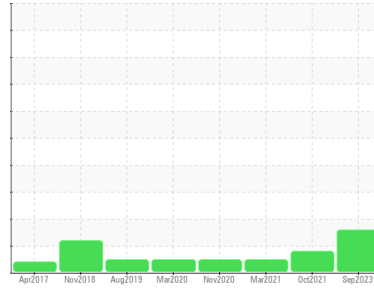
view report





# OIL ANALYSIS REPORT

Sample Rating Trend



**WEAR**



Area  
**MECH ROOM**  
 Machine Id  
**SULLAIR 2C (S/N 007-0200092)**  
 Component  
**Refrigeration Compressor**  
 Fluid  
**REFRIG COMP OIL ISO 68 (120 GAL)**

## DIAGNOSIS

### ▲ Recommendation

We recommend you service the filters on this component.

### ▲ Wear

The iron level has decreased, but is still abnormal. All other component wear rates are normal.

### ▲ Contamination

There is a moderate amount of visible silt present in the sample.

### 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>WC0854650</b>	WC0614920	WC0575104
Sample Date	Client Info		<b>21 Sep 2023</b>	04 Oct 2021	19 Mar 2021
Machine Age	hrs	Client Info	<b>0</b>	110649	105505
Oil Age	hrs	Client Info	<b>0</b>	0	0
Oil Changed	Client Info		<b>N/A</b>	Changed	Not Changed
Sample Status			<b>ABNORMAL</b>	ABNORMAL	NORMAL

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >8	<b>▲ 35</b>	▲ 90	5
Chromium	ppm	ASTM D5185m >2	<b>0</b>	0	0
Nickel	ppm	ASTM D5185m	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m	<b>0</b>	0	0
Silver	ppm	ASTM D5185m >2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m >3	<b>0</b>	0	0
Lead	ppm	ASTM D5185m >2	<b>0</b>	0	0
Copper	ppm	ASTM D5185m >8	<b>&lt;1</b>	<1	0
Tin	ppm	ASTM D5185m >4	<b>0</b>	0	0
Antimony	ppm	ASTM D5185m	<b>---</b>	0	0
Vanadium	ppm	ASTM D5185m	<b>0</b>	0	0
Cadmium	ppm	ASTM D5185m	<b>0</b>	<1	0

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 5	<b>0</b>	0	<1
Barium	ppm	ASTM D5185m 5	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m 5	<b>0</b>	0	0
Manganese	ppm	ASTM D5185m	<b>&lt;1</b>	<1	0
Magnesium	ppm	ASTM D5185m 5	<b>0</b>	0	<1
Calcium	ppm	ASTM D5185m 12	<b>2</b>	0	0
Phosphorus	ppm	ASTM D5185m 12	<b>0</b>	<1	0
Zinc	ppm	ASTM D5185m 12	<b>0</b>	0	<1
Sulfur	ppm	ASTM D5185m 1000	<b>0</b>	4	9

## CONTAMINANTS

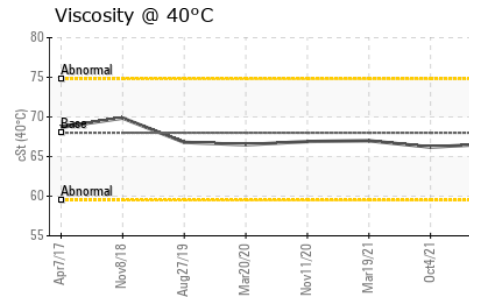
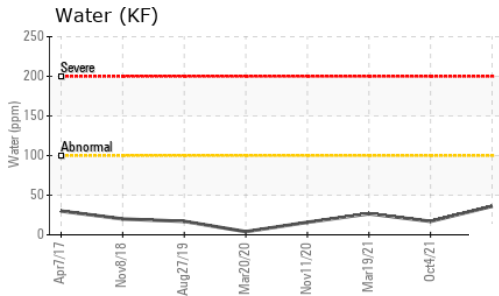
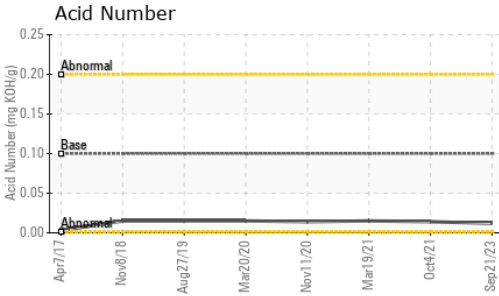
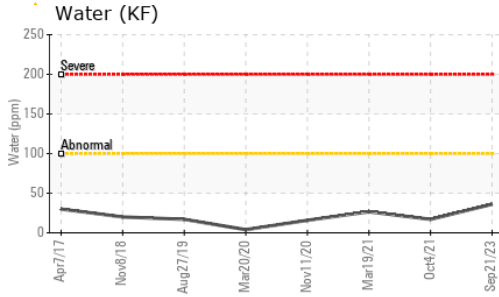
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >15	<b>4</b>	<1	<1
Sodium	ppm	ASTM D5185m	<b>1</b>	0	0
Potassium	ppm	ASTM D5185m >20	<b>0</b>	0	5
Water	%	ASTM D6304 >0.01	<b>0.003</b>	0.002	0.003
ppm Water	ppm	ASTM D6304 >100	<b>36.1</b>	17.0	26.6

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974 0.10	<b>0.012</b>	0.014	0.015



# OIL ANALYSIS REPORT

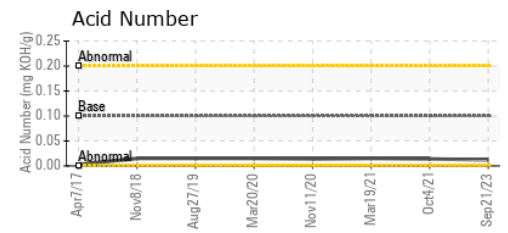
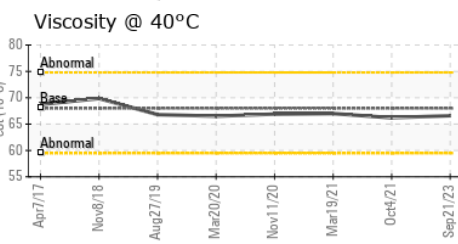
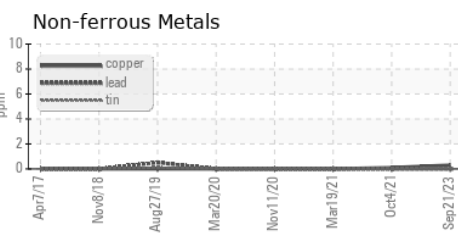
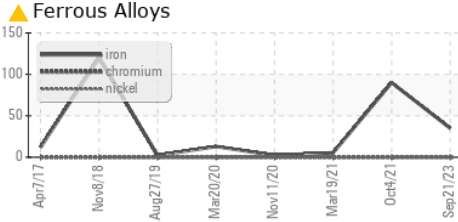


PARAMETER	VISUAL	method	limit/base	current	history1	history2
White Metal		scalar	*Visual	NONE	NONE	NONE
Yellow Metal		scalar	*Visual	NONE	NONE	NONE
Precipitate		scalar	*Visual	NONE	NONE	NONE
Silt		scalar	*Visual	▲ MODER	NONE	NONE
Debris		scalar	*Visual	NONE	LIGHT	NONE
Sand/Dirt		scalar	*Visual	NONE	NONE	NONE
Appearance		scalar	*Visual	NORML	HAZY	NORML
Odor		scalar	*Visual	NORML	NORML	NORML
Emulsified Water		scalar	*Visual	>0.01	NEG	NEG
Free Water		scalar	*Visual		NEG	NEG

PARAMETER	method	limit/base	current	history1	history2
FLUID PROPERTIES					
Visc @ 40°C	cSt	ASTM D445 68	66.6	66.2	67.0

PARAMETER	method	limit/base	current	history1	history2
SAMPLE IMAGES					
Color					
Bottom					

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0854650 **Received** : 27 Sep 2023  
**Lab Number** : 05962262 **Diagnosed** : 28 Sep 2023  
**Unique Number** : 10668813 **Diagnostician** : Don Baldrige  
**Test Package** : IND 2

**HB LYONS**  
 8424 47TH ST  
 LYONS, IL  
 US 60534  
 Contact: JOE HANKINS

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)

T: (708)205-5693

F: