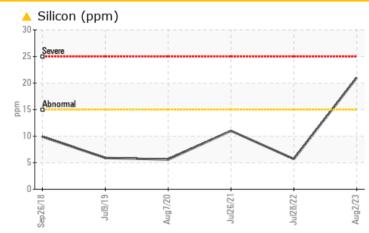


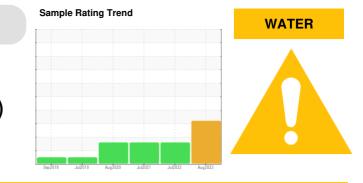
## **PROBLEM SUMMARY**

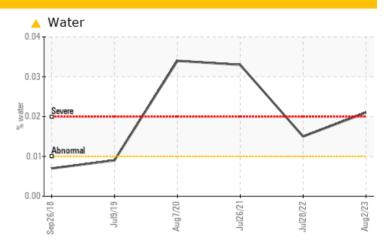
# CARRIER LCOR REMSEN C1 (S/N 3802Q67328)

Refrigeration Compressor Fluid CARRIER 68 (--- Oz)

## COMPONENT CONDITION SUMMARY







### RECOMMENDATION

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

PROBLEMATIC TEST RESULTS								
Sample Status				ABNORMAL	MARGINAL	MARGINAL		
Silicon	ppm	ASTM D5185m	>15	<u> </u>	6	11		
Water	%	ASTM D6304	>0.01	<b>A</b> 0.021	▲ 0.015	<b>0.033</b>		
ppm Water	ppm	ASTM D6304	>100	<u> </u>	<b>1</b> 55.8	▲ 337.7		

Customer Id: CDSCRO Sample No.: WC0713934 Lab Number: 05924364 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Angela Borella +1 800-237-1369 angela.borella@wearcheckusa.com

*To change component or sample information:* Customer Service +1 1-800-237-1369 <u>customerservice@wearcheck.com</u>

### **RECOMMENDED ACTIONS**

There are no recommended actions for this sample.

#### HISTORICAL DIAGNOSIS

28 Jul 2022 Diag: Don Baldridge



No corrective action is recommended at this time. Resample at the next service interval to monitor.All component wear rates are normal. There is a trace of moisture present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



view report

#### 26 Jul 2021 Diag: Don Baldridge

WATER



to Jul 2021 Diag. Doll Baldridge

No corrective action is recommended at this time. Resample at the next service interval to monitor.All component wear rates are normal. There is a trace of moisture present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

07 Aug 2020 Diag: Don Baldridge

## WATER



No corrective action is recommended at this time. Resample at the next service interval to monitor.All component wear rates are normal. There is a trace of moisture present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.





## **OIL ANALYSIS REPORT**

## CARRIER LCOR REMSEN C1 (S/N 3802Q67328)

Refrigeration Compressor

CARRIER 68 (--- Oz)

## DIAGNOSIS

## A Recommendation

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

## Wear

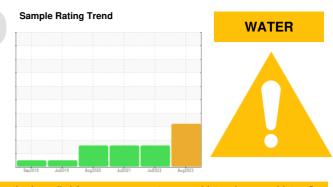
All component wear rates are normal.

## Contamination

There is a trace of moisture present in the oil. Elemental level of silicon (Si) above normal.

## **Fluid Condition**

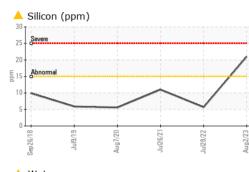
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

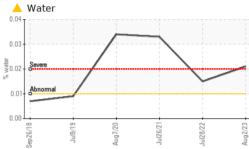


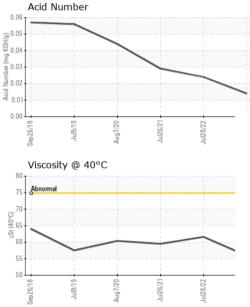
SAMPLE INFORM	<b>IATION</b>	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0713934	WC0714108	WC0596987
Sample Date		Client Info		02 Aug 2023	28 Jul 2022	26 Jul 2021
Machine Age	hrs	Client Info		31940	31204	29436
Oil Age	hrs	Client Info		31940	31204	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	MARGINAL	MARGINAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>8	0	<1	<1
Chromium	ppm	ASTM D5185m	>2	0	0	0
Nickel	ppm	ASTM D5185m		0	1	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>2	0	<1	0
Aluminum	ppm	ASTM D5185m	>3	<1	2	0
Lead	ppm	ASTM D5185m	>2	0	<1	4
Copper	ppm	ASTM D5185m	>8	<1	1	<1
Tin	ppm	ASTM D5185m	>4	<1	3	0
Antimony	ppm	ASTM D5185m				5
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
ADDITIVES Boron	ppm	method ASTM D5185m	limit/base	current 0	<1	history2 2
	ppm ppm		limit/base			
Boron		ASTM D5185m	limit/base	0	<1	2
Boron Barium	ppm	ASTM D5185m ASTM D5185m	limit/base	0 0	<1 0	2 0
Boron Barium Molybdenum	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	0 0 0	<1 0 0	2 0 0
Boron Barium Molybdenum Manganese	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	0 0 0 <1	<1 0 0 0	2 0 0 0
Boron Barium Molybdenum Manganese Magnesium	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	0 0 0 <1 <1	<1 0 0 0 0	2 0 0 0 0
Boron Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	0 0 <1 <1 0	<1 0 0 0 0 0 0	2 0 0 0 0 0
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	0 0 0 <1 <1 0 2080	<1 0 0 0 0 0 584	2 0 0 0 0 0 369
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	0 0 <1 <1 0 2080 0	<1 0 0 0 0 0 584 0	2 0 0 0 0 0 369 3
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		0 0 <1 <1 0 2080 0 0	<1 0 0 0 0 0 584 0 6	2 0 0 0 0 0 369 3 6
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	0 0 2 3 3 4 1 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	<1 0 0 0 0 0 584 0 6 history1	2 0 0 0 0 0 369 3 6 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m <b>method</b> ASTM D5185m	limit/base	0 0 0 <1 <1 0 2080 0 0 0 0 vurrent	<1 0 0 0 0 0 584 0 6 <b>history1</b> 6	2 0 0 0 0 0 369 3 6 history2 11
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m <b>method</b> ASTM D5185m	limit/base >15 >20	0 0 0 <1 <1 0 2080 0 0 0 0 0 2080 0 0 2080 0 0 2080 0 0 2080 0 0 2080 0 0 2080 0 0 2080 0 0 20 20 20 20 20 20 20 20 20 20 20 2	<1 0 0 0 0 0 584 0 6 <b>history1</b> 6 0	2 0 0 0 0 0 369 3 6 <b>history2</b> 11 <1
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	limit/base >15 >20	0 0 0 <1 <1 0 2080 0 0 0 0 0 2080 0 0 2080 0 0 2080 0 0 2080 0 0 2080 0 2080 0 2080 0 2080 0 20 20 20 20 20 20 20 20 20 20 20 20	<1 0 0 0 0 0 584 0 6 <b>history1</b> 6 0 0 0	2 0 0 0 0 0 369 3 6 <b>history2</b> 11 <1 0
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Water	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	limit/base >15 >20 >0.01	0 0 0 <1 <1 0 2080 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	<1 0 0 0 0 0 584 0 6 6 history1 6 0 0 0 0	2 0 0 0 0 0 369 3 6 6 history2 11 <1 <1 0 0



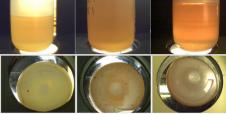
## **OIL ANALYSIS REPORT**



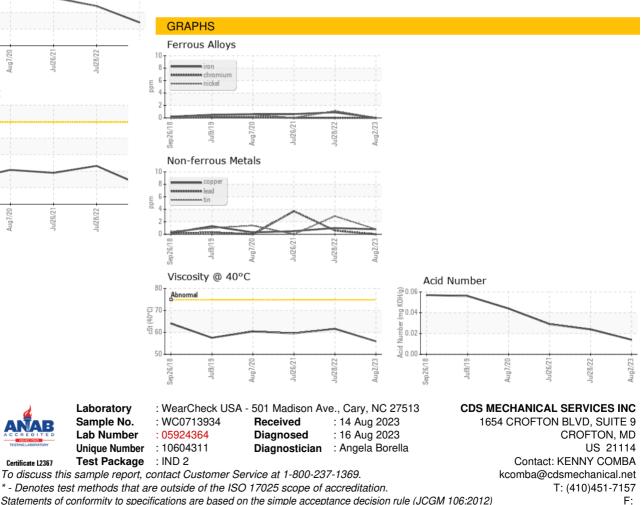




VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.01	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445		55.9	61.6	59.5
SAMPLE IMAGES		method	limit/base	current	history1	history2
Color					1) (]	



Bottom



Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Certificate L2367

Submitted By: JOSE GARCIA

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