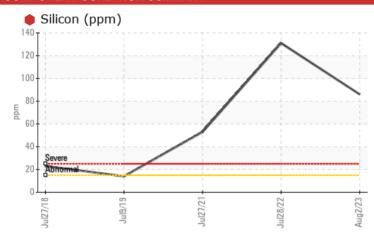


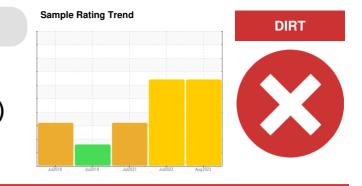
PROBLEM SUMMARY

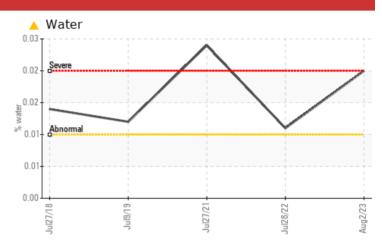
CARRIER LCOR KNOX C-1 (S/N 5102Q67316)

Refrigeration Compressor Fluid CARRIER 68 (10 GAL)

COMPONENT CONDITION SUMMARY







RECOMMENDATION

We advise that you check all areas where dirt can enter the system. We recommend an early resample to monitor this condition.

PROBLEMATIC T	EST RE	SULTS				
Sample Status				SEVERE	SEVERE	ABNORMAL
Silicon	ppm	ASTM D5185m	>15	86	• 131	5 3
Water	%	ASTM D6304	>0.01	6.020	▲ 0.011	0.024
ppm Water	ppm	ASTM D6304	>100	<u> </u>	▲ 116.6	4 240.9

Customer Id: CDSCRO Sample No.: WC0714050 Lab Number: 05924366 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			
Action	Status	Date	Done By	Description
Resample			?	We recommend an early resample to monitor this condition.
Check Dirt Access			?	We advise that you check all areas where dirt can enter the system.

HISTORICAL DIAGNOSIS



28 Jul 2022 Diag: Don Baldridge

We advise that you check all areas where dirt can enter the system. We recommend an early resample to monitor this condition.All component wear rates are normal. There is a trace of moisture present in the oil. Elemental level of silicon (Si) above normal. The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.



view report

27 Jul 2021 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. Elemental level of silicon (Si) above normal. The AN level is at the top-end of the recommended limit. The condition of the oil is suitable for further service.

09 Jul 2019 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.









OIL ANALYSIS REPORT

CARRIER LCOR KNOX C-1 (S/N 5102Q67316)

Refrigeration Compressor Fluid CARRIER 68 (10 GAL)

DIAGNOSIS

Recommendation

We advise that you check all areas where dirt can enter the system. We recommend an early resample to monitor this condition.

Wear

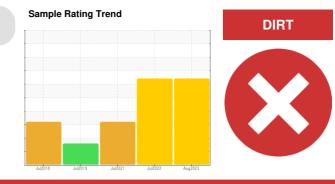
All component wear rates are normal.

Contamination

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

Fluid Condition

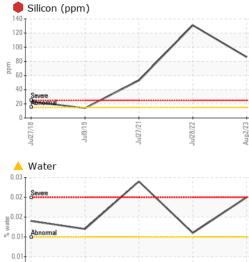
The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.



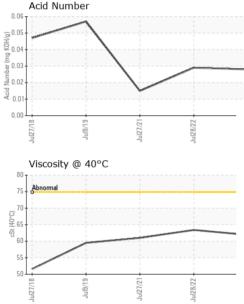
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0714050	WC0597019	WC0484523
Sample Date		Client Info		02 Aug 2023	28 Jul 2022	27 Jul 2021
Machine Age	hrs	Client Info		21750	19105	17161
Oil Age	hrs	Client Info		21750	19105	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				SEVERE	SEVERE	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>8	0	<1	<1
Chromium	ppm	ASTM D5185m	>2	0	<1	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	<1
Lead	ppm	ASTM D5185m	>2	0	1	0
Copper	ppm	ASTM D5185m	>8	2	2	<1
Tin	ppm	ASTM D5185m	>4	<1	2	<1
Antimony	ppm	ASTM D5185m				0
Vanadium	ppm	ASTM D5185m		0	0	0
A 1 1		AOTH DELOS				0
Cadmium	ppm	ASTM D5185m		0	0	0
Cadmium ADDITIVES	ppm	method	limit/base	0 current	0 history1	0 history2
	ppm		limit/base			history2 <1
ADDITIVES		method	limit/base	current	history1	history2
ADDITIVES Boron	ppm	method ASTM D5185m	limit/base	current 0	history1 1	history2 <1
ADDITIVES Boron Barium	ppm ppm	method ASTM D5185m ASTM D5185m	limit/base	current 0 0	history1 1 0	history2 <1 0
ADDITIVES Boron Barium Molybdenum	ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	current 0 0 0	history1 1 0 0	history2 <1 0 0
ADDITIVES Boron Barium Molybdenum Manganese	ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	Current 0 0 0 <1	history1 1 0 0 0	history2 <1 0 0 0
ADDITIVES Boron Barium Molybdenum Manganese Magnesium	ppm ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	Current 0 0 0 <1 <1 <1 0 1889	history1 1 0 0 0 <1 0 <3280	history2 <1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1020
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm ppm	Method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	Current 0 0 0 <1 <1 <1 0 1889 0	history1 1 0 0 0 <1 0 3280 6	history2 <1 0
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		Current 0 0 0 <1 <1 <1 0 1889	history1 1 0 0 0 <1 0 <3280	history2 <1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1020
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	Current 0 0 0 <1 <1 <1 0 1889 0	history1 1 0 0 0 <1 0 3280 6	history2 <1 0
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		Current 0 0 0 <1 <1 <1 0 1889 0 10	history1 1 0 0 0 <1 0 3280 6 373	<1 0
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS	ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	Current 0 0 0 <1 <1 <1 0 1889 0 10 Current	history1 1 0 0 0 - 0 3280 6 373 history1	<1 0 history2
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon	ppm ppm ppm ppm ppm ppm ppm ppm	methodASTM D5185mASTM D5185m	limit/base	Current 0 0 0 4 1 4 1 0 1 8 9 0 1 8 9 0 1 0 Current	history1 1 0 0 0 1 0 3280 6 373 history1 131	<1 0 53
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm ppm	methodASTM D5185mASTM D5185m	limit/base >15 >20	Current 0 0 0 <1 <1 <1 0 1889 0 10 Current 86 <1	history1 1 0 0 0 280 6 373 history1 131 0	<1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1020 0 0 history2 ▲ 53 0
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm ppm	methodASTM D5185mASTM D5185m	limit/base >15 >20 >0.01	Current 0 0 0 <1 <1 <1 0 1889 0 10 0 10 Current 86 <1 2	history1 1 0 0 0 280 6 373 history1 131 0 0 0	<1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 history2 ≤3 0 0 0
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Water	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	methodASTM D5185mASTM D5185m	limit/base >15 >20 >0.01	Current 0 0 0 <1 <1 0 1889 0 10 current 86 <1 2 0.020	history1 1 0 0 0 280 6 373 history1 131 0 0 0 0 0 0.011	<1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 history2 53 0 0 0 0 0 0 0 0 0 0



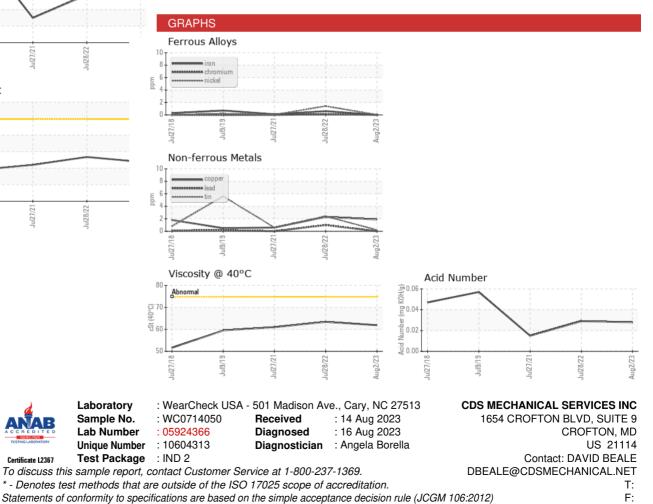
OIL ANALYSIS REPORT







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 PROPERT	IES	method	limit/base	current	history1	history2
Vier @ 1000	. 01	ASTM D445		61.0	00.4	0.1.0
Visc @ 40°C	cSt	AGTIVI D445		61.9	63.4	61.0
SAMPLE IMAGES		method	limit/base	current	63.4 history1	61.0 history2
-			limit/base			



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