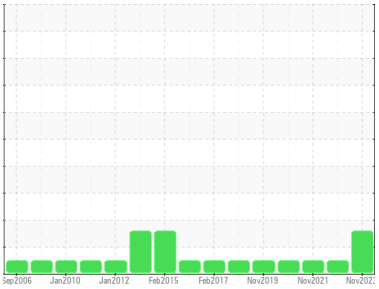
PROBLEM SUMMARY

Area
17 Barberry Pl
Machine Id
CARRIER 4104Q70017
Component
Chiller
Fluid
CARRIER 68 (--- GAL)

Sample Rating Trend



WEAR

COMPONENT CONDITION SUMMARY

No relevant graphs to display

RECOMMENDATION

This unit should be monitored closely by a service engineer as these wear conditions tend to advance rapidly. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS

Sample Status				**MARGINAL**	NORMAL	NORMAL
Iron	ppm	ASTM D5185(m)	>8	▲ **4**	<1	2
Tin	ppm	ASTM D5185(m)	>4	▲ **2**	<1	<1

Customer Id: GTT0000224
Sample No.: GTT0000964
Lab Number: 02602078
Test Package: IND 2

To manage this report scan the QR code

To discuss the diagnosis or test data:
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To change component or sample information:
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gloria.gonzalez@wearcheck.com

RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Resample	---	---	?	We recommend an early resample to monitor this condition.

HISTORICAL DIAGNOSIS

11 Jan 2023 Diag: Wes Davis

NORMAL

The test results indicate normal wear patterns for this type of unit with the moisture and acidity also in the acceptable range.

view report

15 Nov 2021 Diag: Wes Davis

NORMAL

The test results indicate normal wear patterns for this type of unit with moisture and acidity in the acceptable range. The elevated moisture is associated with synthetic oils.

view report

01 Dec 2020 Diag: Wes Davis

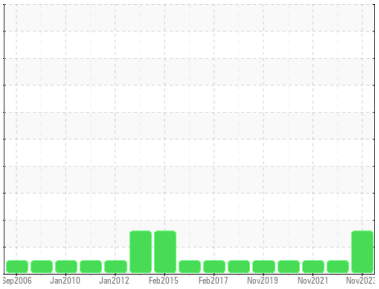
NORMAL

The acid number is slightly high. All wear metals and moisture are in satisfactory ranges for this model unit and the running time reported. DO NOT change the oil. Resample in 3-4 months or 2500 hours.

view report

OIL ANALYSIS REPORT

Sample Rating Trend



WEAR

Area
17 Barberry Pl
Machine Id
CARRIER 4104Q70017
Component
Chiller
Fluid
CARRIER 68 (--- GAL)

DIAGNOSIS

Recommendation
This unit should be monitored closely by a service engineer as these wear conditions tend to advance rapidly. We recommend an early resample to monitor this condition.

Wear
Iron and tin ppm levels are marginal. Bearing wear is indicated.

Contamination
There is a moderate concentration of water present in the oil.

Fluid Condition
The AN level is acceptable for this fluid.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**GTT0000964**	GTT13205	GTT13206
Sample Date		Client Info		**30 Nov 2023**	11 Jan 2023	15 Nov 2021
Machine Age	hrs	Client Info		**0**	---	---
Oil Age	hrs	Client Info		**0**	---	---
Oil Changed		Client Info		**N/A**	N/A	N/A
Sample Status				**MARGINAL**	NORMAL	NORMAL

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>8	▲ **4**	<1	2
Chromium	ppm	ASTM D5185(m)	>2	**0**	<1	<1
Nickel	ppm	ASTM D5185(m)		**<1**	---	---
Titanium	ppm	ASTM D5185(m)		**0**	---	---
Silver	ppm	ASTM D5185(m)	>2	**<1**	---	---
Aluminum	ppm	ASTM D5185(m)	>3	**<1**	<1	<1
Lead	ppm	ASTM D5185(m)	>2	**<1**	<1	<1
Copper	ppm	ASTM D5185(m)	>8	**4**	3	1
Tin	ppm	ASTM D5185(m)	>4	▲ **2**	<1	<1
Antimony	ppm	ASTM D5185(m)		**0**	---	---
Vanadium	ppm	ASTM D5185(m)		**0**	---	---
Beryllium	ppm	ASTM D5185(m)		**0**	---	---
Cadmium	ppm	ASTM D5185(m)		**0**	---	---

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	0	**2**	---	---
Barium	ppm	ASTM D5185(m)	0	**<1**	---	---
Molybdenum	ppm	ASTM D5185(m)	0	**0**	---	---
Manganese	ppm	ASTM D5185(m)	0	**0**	---	---
Magnesium	ppm	ASTM D5185(m)	0	**0**	---	---
Calcium	ppm	ASTM D5185(m)	0	**0**	---	---
Phosphorus	ppm	ASTM D5185(m)	1350	**1205**	---	---
Zinc	ppm	ASTM D5185(m)	10	**28**	7	7
Sulfur	ppm	ASTM D5185(m)	200	**42**	---	---
Lithium	ppm	ASTM D5185(m)		**<1**	---	---

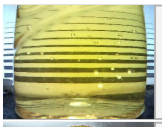
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>15	**7**	---	---
Sodium	ppm	ASTM D5185(m)		**2**	---	---
Potassium	ppm	ASTM D5185(m)	>20	**1**	---	---
ppm Water	ppm	ASTM D6304*	>300	**255**	105	111

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	0.07	**0.11**	0.078	0.073

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	**NONE**	---	---
Debris	scalar	Visual*	NONE	**NONE**	---	---
Sand/Dirt	scalar	Visual*	NONE	**NONE**	---	---
Appearance	scalar	Visual*	NORML	**NORML**	---	---
Odor	scalar	Visual*	NORML	**NORML**	---	---

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	65.4	**51.3**	---	---

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

GRAPHS

Sample No. : GTT0000964 **Received** : 08 Dec 2023
Lab Number : 02602078 **Diagnosed** : 11 Dec 2023
Unique Number : 5695163 **Diagnostician** : Bill Quesnel
Test Package : IND 2 (Additional Tests: KV40)

To discuss this sample report, contact Customer Service at 1-905-847-9300 Ext 26.
Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.
Damages: Seller shall in no event be liable for special, incidental, or consequential damages, of a commercial nature, resulting from any cause.

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