

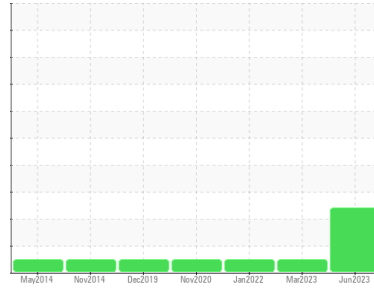


PROBLEM SUMMARY



Area
MGM 825 Coxwell #2 [4500057327]
 Machine Id
CARRIER 0607Q73674
 Component
Chiller
 Fluid
ICI EMKARATE RL 68H (--- GAL)

Sample Rating Trend



WATER



COMPONENT CONDITION SUMMARY

No relevant graphs to display

RECOMMENDATION

Recommend replacement of any filter driers because of the increased moisture level. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS

| Sample Status | | | | ABNORMAL | NORMAL | NORMAL |
|---------------|-----|---------------|------|----------|--------|--------|
| Tin | ppm | ASTM D5185(m) | >4 | ▲ 2 | <1 | <1 |
| ppm Water | ppm | ASTM D6304* | >100 | ▲ 192 | 62 | 52 |

Customer Id: GTT0000224
 Sample No.: GTT0001179
 Lab Number: 02602975
 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:
 Bill Quesnel CLS,OMA II,MLA-III,LLA-I +1
 (289)291-4641 x4641
Bill.Quesnel@wearcheck.com

To change component or sample information:
 Gloria Gonzalez +1 (289)291-4643 x4643
gloria.gonzalez@wearcheck.com

RECOMMENDED ACTIONS

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

HISTORICAL DIAGNOSIS

21 Mar 2023 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



25 Jan 2022 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



18 Nov 2020 Diag: Wes Davis

NORMAL



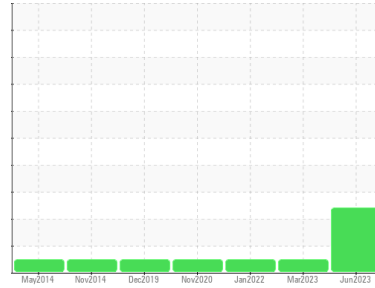
The test results indicate normal wear patterns for this type of unit with the moisture and acidity also in the acceptable range.

view report



OIL ANALYSIS REPORT

Sample Rating Trend



WATER



Area
MGM 825 Coxwell #2 [4500057327]
 Machine Id
CARRIER 0607Q73674
 Component
Chiller
 Fluid
ICI EMKARATE RL 68H (--- GAL)

DIAGNOSIS

▲ Recommendation

Recommend replacement of any filter driers because of the increased moisture level. We recommend an early resample to monitor this condition.

▲ Wear

Tin ppm levels are marginal. The tin reading shows moderate wear occurring on the compressor bearings or motor bearings.

▲ 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 | | GTT0001179 | GTT1527 | GTT1528 |
| Sample Date | Client Info | | 23 Jun 2023 | 21 Mar 2023 | 25 Jan 2022 |
| Machine Age | hrs | Client Info | 0 | --- | --- |
| Oil Age | hrs | Client Info | 0 | --- | --- |
| Oil Changed | Client Info | | N/A | N/A | N/A |
| Sample Status | | | ABNORMAL | NORMAL | NORMAL |

WEAR METALS

| | method | limit/base | current | history1 | history2 |
|-----------|--------|------------------|--------------|----------|----------|
| Iron | ppm | ASTM D5185(m) >8 | 0 | <1 | <1 |
| 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 | 0 | <1 | <1 |
| Lead | ppm | ASTM D5185(m) >2 | <1 | <1 | <1 |
| Copper | ppm | ASTM D5185(m) >8 | 1 | 2 | 2 |
| 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 | <1 | --- | --- |
| Barium | ppm | ASTM D5185(m) 0 | 0 | --- | --- |
| Molybdenum | ppm | ASTM D5185(m) 0 | 0 | --- | --- |
| Manganese | ppm | ASTM D5185(m) | 0 | --- | --- |
| Magnesium | ppm | ASTM D5185(m) 0 | 0 | --- | --- |
| Calcium | ppm | ASTM D5185(m) 0 | 0 | --- | --- |
| Phosphorus | ppm | ASTM D5185(m) 1900 | 1979 | --- | --- |
| Zinc | ppm | ASTM D5185(m) 0 | 2 | 1 | 2 |
| Sulfur | ppm | ASTM D5185(m) 25 | 31 | --- | --- |
| Lithium | ppm | ASTM D5185(m) | <1 | --- | --- |

CONTAMINANTS

| | method | limit/base | current | history1 | history2 |
|-----------|--------|-------------------|--------------|----------|----------|
| Silicon | ppm | ASTM D5185(m) >15 | 29 | --- | --- |
| Sodium | ppm | ASTM D5185(m) | 2 | --- | --- |
| Potassium | ppm | ASTM D5185(m) >20 | 6 | --- | --- |
| ppm Water | ppm | ASTM D6304* >100 | ▲ 192 | 62 | 52 |

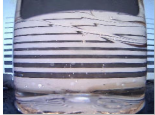

FLUID DEGRADATION

| | method | limit/base | current | history1 | history2 |
|------------------|----------|-----------------|-------------|----------|----------|
| Acid Number (AN) | mg KOH/g | ASTM D974* 0.02 | 0.02 | 0.115 | 0.115 |

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) | 72.3 | 42.3 | --- | --- |

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

GRAPHS



Sample No. : GTT0001179 **Recieved** : 13 Dec 2023
Lab Number : **02602975** **Diagnosed** : 15 Dec 2023
Unique Number : 5696060 **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.

Carrier Commerical Service
 C/O Conduent Div of Carrier Canada, 1-2740 Matheson Blvd
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 CA L4W 4X3
 Contact: Brian Raymundo
 Brian.Raymundo@carrier.com

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