

OIL ANALYSIS REPORT

Queens U. Cancer Res. 1A

CARRIER 3102Q01853(1A)

Sample Rating Trend



COMP OIL (ESTER) ISO 220 (--- GAL)

Component Chiller Fluid

| DIAGNOSIS | SAMPLE INFORM | NATION | method | limit/base | current | history1 | history2 |
|--|------------------|----------|---------------|------------|-------------|-------------|-------------|
| Recommendation | Sample Number | | Client Info | | GTT0001434 | GTT10856 | GTT10857 |
| Resample at the next service interval to monitor. | Sample Date | | Client Info | | 10 Aug 2023 | 30 Dec 2021 | 01 Mar 2021 |
| Please specify the brand, type, and viscosity of the | Machine Age | hrs | Client Info | | 0 | | |
| oil on your next sample. | Oil Age | hrs | Client Info | | 0 | | |
| Wear | Oil Changed | | Client Info | | N/A | N/A | N/A |
| All component wear rates are normal. | Sample Status | | | | NORMAL | NORMAL | NORMAL |
| Contamination The water content is negligible. There is no indication of any contamination in the oil. | WEAR METALS | | method | limit/base | | history1 | history2 |
| | Iron | ppm | ASTM D5185(m) | | 8 | 4 | 2 |
| Fluid Condition The AN level is acceptable for this fluid. The condition of the oil is suitable for further service. | Chromium | ppm | ASTM D5185(m) | >2 | 0 | <1 | <1 |
| | Nickel | ppm | ASTM D5185(m) | | 0 | | |
| | Titanium | ppm | ASTM D5185(m) | | 0 | | |
| | Silver | ppm | ASTM D5185(m) | >2 | 0 | | |
| | Aluminum | ppm | ASTM D5185(m) | >3 | <1 | <1 | <1 |
| | Lead | ppm | ASTM D5185(m) | >2 | 2 | <1 | <1 |
| | Copper | ppm | ASTM D5185(m) | >8 | 5 | 2 | 2 |
| | Tin | ppm | ASTM D5185(m) | >4 | <1 | <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) | 5 | <1 | | |
| | Barium | ppm | ASTM D5185(m) | 5 | 0 | | |
| | Molybdenum | ppm | ASTM D5185(m) | 5 | 0 | | |
| | Manganese | ppm | ASTM D5185(m) | | 0 | | |
| | Magnesium | ppm | ASTM D5185(m) | 5 | 0 | | |
| | Calcium | ppm | ASTM D5185(m) | 5 | 0 | | |
| | Phosphorus | ppm | ASTM D5185(m) | 400 | 2 | | |
| | Zinc | ppm | ASTM D5185(m) | 5 | 5 | 2 | 2 |
| | Sulfur | ppm | ASTM D5185(m) | 100 | 3 | | |
| | Lithium | ppm | ASTM D5185(m) | | <1 | | |
| | CONTAMINANTS | 6 | method | limit/base | current | history1 | history2 |
| | Silicon | ppm | ASTM D5185(m) | >15 | 23 | | |
| | Sodium | ppm | ASTM D5185(m) | | <1 | | |
| | Potassium | ppm | ASTM D5185(m) | >20 | <1 | | |
| | ppm Water | ppm | ASTM D6304* | | 43 | 112 | 192 |
| | FLUID DEGRADA | ATION | method | limit/base | current | history1 | history2 |
| | Acid Number (AN) | mg KOH/g | ASTM D974* | 0.40 | 0.03 | 0.016 | 0.023 |



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| 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 PROPERT | IES | method | limit/base | current | history1 | history2 | | |
| Visc @ 40°C | cSt | ASTM D7279(m) | 220 | 124 | | | | |
| SAMPLE IMAGES | ; | method | limit/base | current | history1 | history2 | | |
| Color | | | | | no image | no image | | |
| Bottom | | | | | no image | no image | | |
| GRAPHS | | | | | | | | |



Sample No. : GTT0001434 : 03 Jan 2024 Lab Number : 02606346 Diagnosed : 09 Jan 2024 Unique Number : 5707432 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.

Recieved

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