

OIL ANALYSIS REPORT

Sample Rating Trend

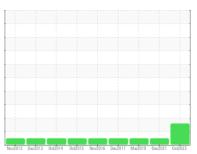




St. Lawrence College #2A **CARRIER 2610Q91498(2A)**

Chiller

REFRIGERATION OIL (POE) (--- GAL)





DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

All component wear rates are normal.

Contamination

The elevated moisture content is associated with POE oils which are hygroscopic, and can absorb moisture from sampling and processing.

Fluid Condition

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

| New2012 Dec2013 Oct2014 Oct2015 New2015 Dec2017 Mar2019 Dec2021 Oct2023 | | | | | | | | |
|---|----------|---------------|------------|-------------|-------------|-------------|--|--|
| SAMPLE INFORM | MATION | method | limit/base | current | history1 | history2 | | |
| Sample Number | | Client Info | | GTT0001408 | GTT9483 | GTT9484 | | |
| Sample Date | | Client Info | | 06 Oct 2023 | 30 Dec 2021 | 28 Mar 2019 | | |
| Machine Age | hrs | Client Info | | 0 | | | | |
| Oil Age | hrs | Client Info | | 0 | | | | |
| Oil Changed | | Client Info | | N/A | N/A | N/A | | |
| Sample Status | | | | ATTENTION | NORMAL | NORMAL | | |
| WEAR METALS | | method | limit/base | current | history1 | history2 | | |
| Iron | ppm | ASTM D5185(m) | >8 | 2 | 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 | 0 | | | | |
| Aluminum | ppm | ASTM D5185(m) | >3 | <1 | <1 | <1 | | |
| Lead | ppm | ASTM D5185(m) | >2 | 0 | <1 | <1 | | |
| Copper | ppm | ASTM D5185(m) | >8 | <1 | <1 | <1 | | |
| Tin | ppm | ASTM D5185(m) | >4 | 0 | <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 | 0 | | | | |
| Barium | ppm | ASTM D5185(m) | 0 | 0 | | | | |
| 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) | 10 | 0 | | | | |
| Phosphorus | ppm | ASTM D5185(m) | 250 | 54 | | | | |
| Zinc | ppm | ASTM D5185(m) | 0 | <1 | <1 | <1 | | |
| Sulfur | ppm | ASTM D5185(m) | 400 | 1 | | | | |
| Lithium | ppm | ASTM D5185(m) | | <1 | | | | |
| CONTAMINANTS | ; | method | limit/base | current | history1 | history2 | | |
| Silicon | ppm | ASTM D5185(m) | >15 | 5 | | | | |
| Sodium | ppm | ASTM D5185(m) | | <1 | | | | |
| Potassium | ppm | ASTM D5185(m) | >20 | 5 | | | | |
| ppm Water | ppm | ASTM D6304* | >200 | ▲ 347 | 201 | 209 | | |
| FLUID DEGRADA | ATION | method | limit/base | current | history1 | history2 | | |
| Acid Number (AN) | mg KOH/g | ASTM D974* | 0.07 | 0.07 | 0.015 | 0.022 | | |



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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) | | 173 | | |
| SAMPLE IMAGES | | method | limit/base | current | history1 | history2 |
| Color | | | | | no image | no image |
| | | | | | | |
| Bottom | | | | | no image | no image |



Sample No.: GTT0001408Recieved: 03 Jan 2024Lab Number: 02606416Diagnosed: 12 Jan 2024Unique Number: 5707502Diagnostician: 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

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Mississauga, ON CA L4W 4X3

Contact: Brian Raymundo Brian.Raymundo@carrier.com

external lab. T:

nature, resulting from any cause.