

OIL ANALYSIS REPORT

Carleton Univ. LOEB Ch#2 [4500054809]

Sample Rating Trend



NORMAL

Fluid ICI EMKARATE RL 68H (--- GAL)

CARRIER 0909Q18794

Component Chiller

| DIAGNOSIS | SAMPLE INFOR | MATION | method | limit/base | current | history1 | history2 |
|--|------------------|--------|---------------|------------|-------------|-------------|-------------|
| Recommendation | Sample Number | | Client Info | | GTT0001336 | GTT2796 | GTT2797 |
| Resample at the next service interval to monitor. | Sample Date | | Client Info | | 04 Aug 2023 | 07 Dec 2021 | 01 Mar 2021 |
| Wear | Machine Age | hrs | Client Info | | 0 | | |
| All component wear rates are normal. | Oil Age | hrs | Client Info | | 0 | | |
| Contamination | Oil Changed | | Client Info | | N/A | N/A | N/A |
| The water content is negligible. There is no | Sample Status | | | | NORMAL | NORMAL | NORMAL |
| ndication of any contamination in the oil. | WEAR METALS | | method | limit/base | current | history1 | history2 |
| Fluid Condition The AN level is acceptable for this fluid. The condition of the oil is suitable for further service. | Iron | ppm | ASTM D5185(m) | >8 | 0 | <1 | <1 |
| | Chromium | ppm | ASTM D5185(m) | | 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) | | <1 | <1 | <1 |
| | Lead | ppm | ASTM D5185(m) | | <1 | <1 | <1 |
| | Copper | ppm | ASTM D5185(m) | | 2 | <1 | <1 |
| | Tin | ppm | ASTM D5185(m) | | 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 | | |
| | Molybdenum | ppm | ASTM D5185(m) | | 0 | | |
| | Manganese | ppm | ASTM D5185(m) | | 0 | | |
| | Magnesium | ppm | ASTM D5185(m) | 0 | 0 | | |
| | Calcium | ppm | ASTM D5185(m) | | 0 | | |
| | Phosphorus | ppm | ASTM D5185(m) | | 1805 | | |
| | Zinc | ppm | ASTM D5185(m) | | 1 | <1 | <1 |
| | Sulfur | ppm | ASTM D5185(m) | | 8 | | |
| | Lithium | ppm | ASTM D5185(m) | | <1 | | |
| | CONTAMINANTS | S | method | limit/base | current | history1 | history2 |
| | Silicon | ppm | ASTM D5185(m) | >15 | 7 | | |
| | Sodium | ppm | ASTM D5185(m) | | 0 | | |
| | Potassium | ppm | ASTM D5185(m) | >20 | 0 | | |
| | ppm Water | ppm | ASTM D6304* | | 42 | 165 | 248 |
| | FLUID DEGRAD | ATION | method | limit/base | current | history1 | history2 |
| | Acid Number (AN) | | ASTM D974* | | 0.05 | 0.037 | 0.030 |
| | | mynong | . 101111 0014 | 3.01 | 0.00 | 0.007 | 0.000 |



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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) | 72.3 | 54.7 | | |
| SAMPLE IMAGES | ; | method | limit/base | current | history1 | history2 |
| Color | | | | | no image | no image |
| Bottom | | | | | no image | no image |
| GRAPHS | | | _ | | | |



 Sample No.
 : GTT0001336
 Recieved
 : 28 Dec 2023
 C/O Conduent Div of Ca

 Lab Number
 : 02605624
 Diagnosed
 : 05 Jan 2024

 Unique Number
 : 5698709
 Diagnostician
 : Bill Quesnel

 Test Package
 : IND 2 (Additional Tests: KV40)
 Co

 To discuss this sample report, contact Customer Service at 1-905-847-9300 Ext 26.
 Brian.R

 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.