



OIL ANALYSIS REPORT

Sample Rating Trend

WATER



Area
[2307050175]

Machine Id
CARLYSLE CANNON CHILLER BR-2 (S/N 146008 - CHILLER BR-2)

Component
Refrigeration Compressor

Fluid
{not provided} (--- GAL)



DIAGNOSIS

▲ Recommendation

No corrective action is recommended at this time. We recommend an early resample to monitor this condition. Please specify the brand, type, and viscosity of the oil on your next sample.

Wear

All component wear rates are normal.

▲ Contamination

There is a trace of moisture present in the oil.

Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION

| | method | limit/base | current | history1 | history2 |
|---------------|-------------|-------------|--------------------|-------------|----------|
| Sample Number | Client Info | | WC0812219 | WCI2092821 | --- |
| Sample Date | Client Info | | 07 Dec 2023 | 13 Jul 2015 | --- |
| Machine Age | hrs | Client Info | 0 | 0 | --- |
| Oil Age | hrs | Client Info | 0 | 0 | --- |
| Oil Changed | Client Info | | N/A | N/A | --- |
| Sample Status | | | MARGINAL | MARGINAL | --- |

WEAR METALS

| | method | limit/base | current | history1 | history2 |
|----------|--------|----------------|--------------|----------|----------|
| Iron | ppm | ASTM D5185m >8 | 0 | 0 | --- |
| Chromium | ppm | ASTM D5185m >2 | 0 | 0 | --- |
| Nickel | ppm | ASTM D5185m | 0 | <1 | --- |
| Titanium | ppm | ASTM D5185m | 0 | 0 | --- |
| Silver | ppm | ASTM D5185m >2 | 0 | 0 | --- |
| Aluminum | ppm | ASTM D5185m >3 | 0 | 0 | --- |
| Lead | ppm | ASTM D5185m >2 | 0 | <1 | --- |
| Copper | ppm | ASTM D5185m >8 | <1 | 0 | --- |
| Tin | ppm | ASTM D5185m >4 | 0 | 0 | --- |
| Antimony | ppm | ASTM D5185m | --- | 0 | --- |
| Vanadium | ppm | ASTM D5185m | 0 | 0 | --- |
| Cadmium | ppm | ASTM D5185m | 0 | 0 | --- |

ADDITIVES

| | method | limit/base | current | history1 | history2 |
|------------|--------|-------------|--------------|----------|----------|
| Boron | ppm | ASTM D5185m | 0 | <1 | --- |
| Barium | ppm | ASTM D5185m | 0 | 0 | --- |
| Molybdenum | ppm | ASTM D5185m | 0 | <1 | --- |
| Manganese | ppm | ASTM D5185m | <1 | 0 | --- |
| Magnesium | ppm | ASTM D5185m | <1 | <1 | --- |
| Calcium | ppm | ASTM D5185m | <1 | 0 | --- |
| Phosphorus | ppm | ASTM D5185m | 2 | 2 | --- |
| Zinc | ppm | ASTM D5185m | 2 | <1 | --- |
| Sulfur | ppm | ASTM D5185m | 0 | 3 | --- |

CONTAMINANTS

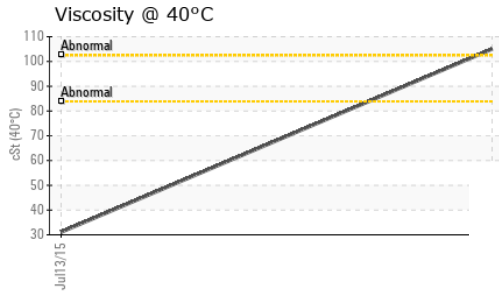
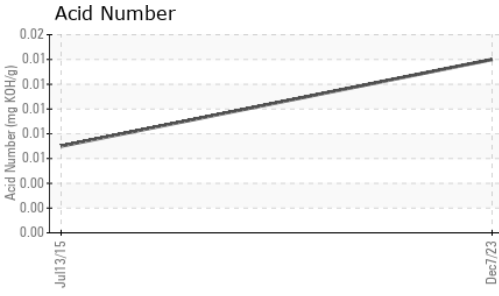
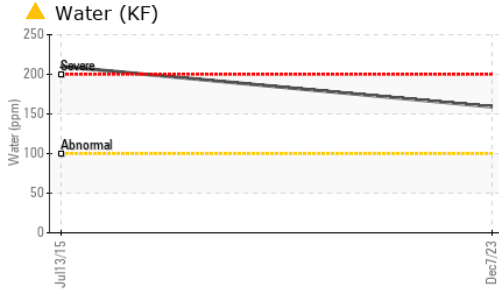
| | method | limit/base | current | history1 | history2 |
|-----------|--------|------------------|----------------|----------|----------|
| Silicon | ppm | ASTM D5185m >15 | <1 | 2 | --- |
| Sodium | ppm | ASTM D5185m | 0 | 0 | --- |
| Potassium | ppm | ASTM D5185m >20 | 0 | 0 | --- |
| Water | % | ASTM D6304 >0.01 | ▲ 0.015 | ▲ 0.021 | --- |
| ppm Water | ppm | ASTM D6304 >100 | ▲ 159 | ▲ 210 | --- |

FLUID DEGRADATION

| | method | limit/base | current | history1 | history2 |
|------------------|----------|------------|--------------|----------|----------|
| Acid Number (AN) | mg KOH/g | ASTM D974 | 0.014 | 0.007 | --- |



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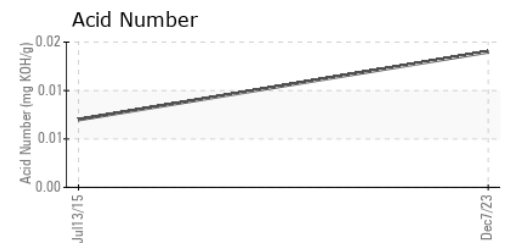
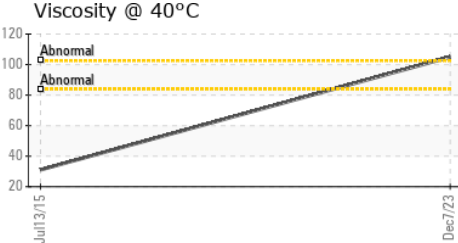
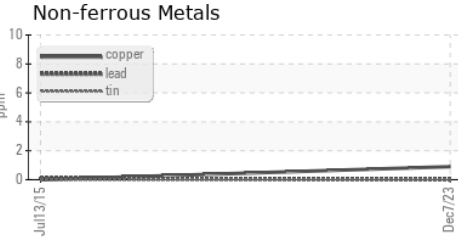
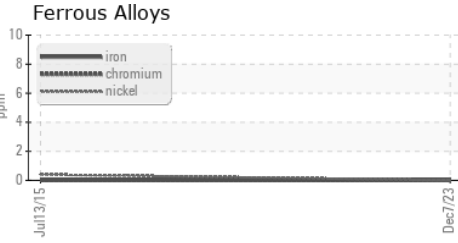
| VISUAL | method | limit/base | current | history1 | history2 |
|------------------|--------|------------|---------|----------|----------|
| White Metal | scalar | *Visual | NONE | NONE | --- |
| Yellow Metal | scalar | *Visual | NONE | NONE | --- |
| Precipitate | scalar | *Visual | NONE | NONE | --- |
| 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 | --- |
| Emulsified Water | scalar | *Visual | >0.01 | NEG | --- |
| Free Water | scalar | *Visual | | NEG | --- |

| FLUID PROPERTIES | method | limit/base | current | history1 | history2 |
|------------------|--------|------------|---------|----------|----------|
| Visc @ 40°C | cSt | ASTM D445 | 105 | 31.05 | --- |

SAMPLE IMAGES

| | method | limit/base | current | history1 | history2 |
|--------|--------|------------|---------|----------|----------|
| Color | | | | | |
| Bottom | | | | | |

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0812219 **Received** : 17 Jan 2024
Lab Number : 06062870 **Diagnosed** : 19 Jan 2024
Unique Number : 10834252 **Diagnostician** : Don Baldrige
Test Package : IND 2

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Certificate L2367
 To discuss this sample report, contact Customer Service at 1-800-237-1369.
 * - Denotes test methods that are outside of the ISO 17025 scope of accreditation.
 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)