

OIL ANALYSIS REPORT



WATER



VILTER CP-12 (S/N 10909A RC)

Refrigeration Compressor

CAMCO 717 HT (--- GAL)

DIAGNOSIS

Recommendation

We recommend you service the filters on this component. Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is a high amount of particulates present in the oil. There is a light concentration of water present in the oil.

Fluid Condition

A decrease in the viscosity is noted. Confirmed. The AN level is acceptable for this fluid.

| | | | Dec2023 | Jan2024 | | |
|------------------|----------|--------------|------------|-----------------|-------------|----------|
| SAMPLE INFORM | MATION | method | limit/base | current | history1 | history2 |
| Sample Number | | Client Info | | USP218482 | USP218483 | |
| Sample Date | | Client Info | | 15 Jan 2024 | 27 Dec 2023 | |
| Machine Age | hrs | Client Info | | 0 | 0 | |
| Oil Age | hrs | Client Info | | 0 | 0 | |
| Oil Changed | | Client Info | | N/A | N/A | |
| Sample Status | | | | ABNORMAL | NORMAL | |
| WEAR METALS | | method | limit/base | current | history1 | history2 |
| Iron | ppm | ASTM D5185m | >8 | 0 | 0 | |
| Chromium | ppm | ASTM D5185m | >2 | <1 | 0 | |
| Nickel | ppm | ASTM D5185m | | <1 | 0 | |
| 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 | 0 | |
| Copper | ppm | ASTM D5185m | | 0 | 0 | |
| Tin | ppm | ASTM D5185m | >4 | 0 | 0 | |
| Vanadium | ppm | ASTM D5185m | | 0 | 0 | |
| Cadmium | ppm | ASTM D5185m | | 0 | 0 | |
| | ррпп | | 11 11 11 | | | |
| ADDITIVES | | method | limit/base | current | history1 | history2 |
| Boron | ppm | ASTM D5185m | | 0 | 0 | |
| Barium | ppm | ASTM D5185m | | 0 | 0 | |
| Molybdenum | ppm | ASTM D5185m | | 0 | 0 | |
| Manganese | ppm | ASTM D5185m | | 0 | 0 | |
| Magnesium | ppm | ASTM D5185m | | 0 | 0 | |
| Calcium | ppm | ASTM D5185m | | 0 | 0 | |
| Phosphorus | ppm | ASTM D5185m | | 0 | 0 | |
| Zinc | ppm | ASTM D5185m | | 0 | 0 | |
| Sulfur | ppm | ASTM D5185m | | 0 | 0 | |
| CONTAMINANTS | | method | limit/base | current | history1 | history2 |
| Silicon | ppm | ASTM D5185m | >15 | 2 | 1 | |
| Sodium | ppm | ASTM D5185m | | 0 | 0 | |
| Potassium | ppm | ASTM D5185m | >20 | <1 | 0 | |
| Water | % | ASTM D6304 | >0.01 | <u> </u> | 0.003 | |
| ppm Water | ppm | ASTM D6304 | >100 | 474 | 30 | |
| FLUID CLEANLIN | IESS | method | limit/base | current | history1 | history2 |
| Particles >4µm | | ASTM D7647 | | 37590 | 4407 | |
| Particles >6µm | | ASTM D7647 | >2500 | 10370 | 699 | |
| Particles >14µm | | ASTM D7647 | >320 | 497 | 18 | |
| Particles >21µm | | ASTM D7647 | >80 | 32 | 5 | |
| Particles >38µm | | ASTM D7647 | >20 | 1 | 0 | |
| Particles >71µm | | ASTM D7647 | >4 | 0 | 0 | |
| Oil Cleanliness | | ISO 4406 (c) | >/18/15 | <u>22/21/16</u> | 19/17/11 | |
| FLUID DEGRADA | TION | method | limit/base | current | history1 | history2 |
| Acid Number (AN) | mg KOH/g | ASTM D974 | 0.007 | 0.014 | 0.014 | |
| (-) | 5 - 3 | | | | | |



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Certificate L2367

Unique Number

: 10832611 Test Package : IND 2

Diagnosed

Diagnostician : Doug Bogart

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)

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