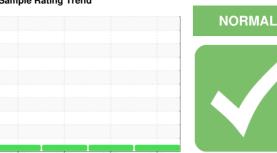


OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

HOWDEN COMPRESSOR #4 (S/N MK2E2/XRV163193MVI/232)

Refrigeration Compressor

CAMCO 717 HT (50 GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

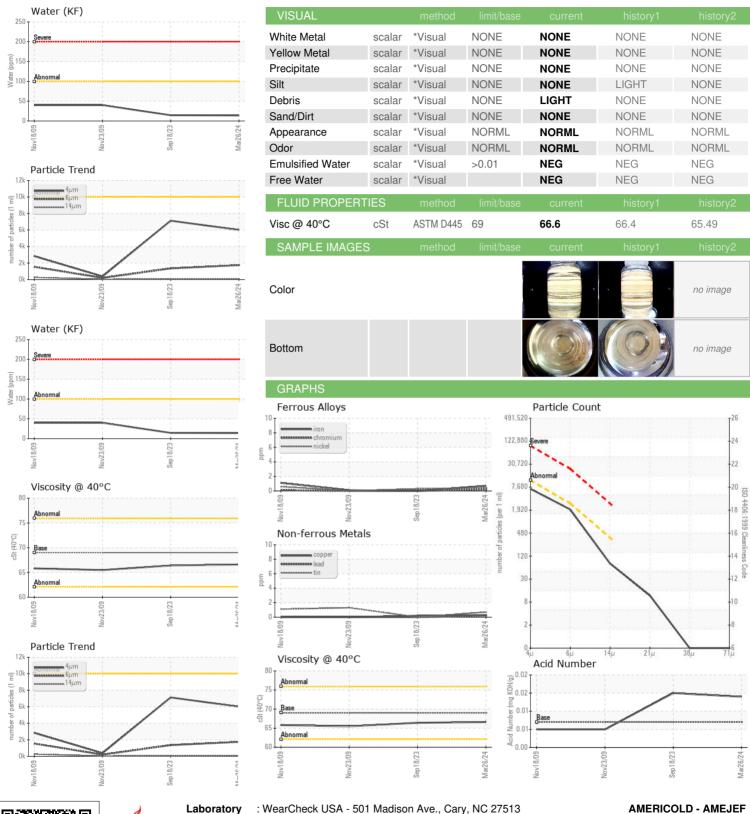
Fluid Condition

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

| | | Nov200 | 9 Nov2009 | Sep2023 M | ar2024 | |
|----------------------------|-------|--------------|------------|-------------|-------------|-------------|
| SAMPLE INFORM | ATION | method | limit/base | current | history1 | history2 |
| Sample Number | | Client Info | | USP248609 | USP248603 | USP099916 |
| Sample Date | | Client Info | | 26 Mar 2024 | 18 Sep 2023 | 23 Nov 2009 |
| Machine Age | hrs | Client Info | | 307 | 135 | 5562 |
| Oil Age | hrs | Client Info | | 0 | 0 | 5562 |
| Oil Changed | | Client Info | | N/A | N/A | N/A |
| Sample Status | | | | NORMAL | NORMAL | NORMAL |
| WEAR METALS | | method | limit/base | current | history1 | history2 |
| Iron | ppm | ASTM D5185m | >8 | <1 | 0 | <1 |
| Chromium | ppm | ASTM D5185m | >2 | <1 | 0 | 0 |
| Nickel | ppm | ASTM D5185m | | <1 | <1 | 0 |
| Titanium | ppm | ASTM D5185m | | <1 | 0 | 0 |
| Silver | ppm | ASTM D5185m | >2 | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | >3 | 0 | 0 | 0 |
| Lead | ppm | ASTM D5185m | >2 | <1 | 0 | 0 |
| Copper | ppm | ASTM D5185m | >8 | <1 | <1 | 0 |
| Tin | ppm | ASTM D5185m | >4 | <1 | 0 | 1 |
| Antimony | ppm | ASTM D5185m | | | | 0 |
| Vanadium | ppm | ASTM D5185m | | <1 | 0 | 0 |
| Cadmium | ppm | ASTM D5185m | | <1 | 0 | <1 |
| ADDITIVES | | method | limit/base | current | history1 | history2 |
| Boron | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Barium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m | | <1 | 0 | <1 |
| Manganese | ppm | ASTM D5185m | | <1 | 0 | 0 |
| Magnesium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Calcium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Phosphorus | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Zinc | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Sulfur | ppm | ASTM D5185m | | 0 | 10 | 73 |
| CONTAMINANTS | | method | limit/base | current | history1 | history2 |
| Silicon | ppm | ASTM D5185m | >15 | <1 | 0 | <1 |
| Sodium | ppm | ASTM D5185m | | <1 | 0 | 0 |
| Potassium | ppm | ASTM D5185m | >20 | <1 | 1 | 5 |
| Water | % | ASTM D6304 | >0.01 | 0.001 | 0.001 | 0.004 |
| ppm Water | ppm | ASTM D6304 | >100 | 14 | 14.5 | 40 |
| FLUID CLEANLINE | ESS | method | limit/base | current | history1 | history2 |
| Particles >4µm | | ASTM D7647 | >10000 | 6004 | 7128 | 371 |
| Particles >6µm | | ASTM D7647 | >2500 | 1744 | 1355 | 202 |
| Particles >14μm | | ASTM D7647 | >320 | 68 | 42 | 34 |
| Particles >21μm | | ASTM D7647 | | 10 | 8 | 11 |
| Particles >38µm | | ASTM D7647 | >20 | 0 | 1 | 1 |
| Particles >71μm | | ASTM D7647 | >4 | 0 | 0 | 0 |
| Oil Cleanliness | | ISO 4406 (c) | >20/18/15 | 20/18/13 | 20/18/13 | 16/15/12 |
| FLUID DEGRADA ⁻ | TION | method | limit/base | current | history1 | history2 |



OIL ANALYSIS REPORT







Certificate 12367

Laboratory Sample No. Lab Number

: USP248609 : 06138101 Unique Number : 10962909 Test Package : IND 2

Received : 03 Apr 2024 **Tested** : 04 Apr 2024

Diagnosed : 05 Apr 2024 - Doug Bogart

To discuss this sample report, contact Customer Service at 1-800-237-1369.

 st - 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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