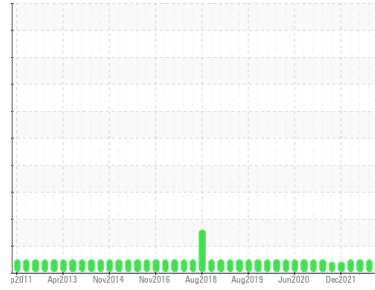




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Machine Id  
**MYCOM S-2 (S/N 2053899)**  
 Component  
**Refrigeration Compressor**  
 Fluid  
**MYCOM MYCOLD AB68 (55 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.

## SAMPLE INFORMATION

|               | method      | limit/base  | current            | history1    | history2    |
|---------------|-------------|-------------|--------------------|-------------|-------------|
| Sample Number | Client Info |             | <b>USP250457</b>   | USP241199   | USP241202   |
| Sample Date   | Client Info |             | <b>05 Dec 2023</b> | 09 Jun 2023 | 21 Dec 2022 |
| Machine Age   | hrs         | Client Info | <b>112034</b>      | 110767      | 107255      |
| Oil Age       | hrs         | Client Info | <b>8667</b>        | 7400        | 3888        |
| Oil Changed   | Client Info |             | <b>Not Changed</b> | Not Changed | Not Changed |
| Sample Status |             |             | <b>NORMAL</b>      | NORMAL      | NORMAL      |

## WEAR METALS

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

## ADDITIVES

|            | method | limit/base      | current      | history1 | history2 |
|------------|--------|-----------------|--------------|----------|----------|
| Boron      | ppm    | ASTM D5185m     | <b>0</b>     | 0        | 0        |
| Barium     | ppm    | ASTM D5185m     | <b>0</b>     | 0        | 0        |
| Molybdenum | ppm    | ASTM D5185m     | <b>0</b>     | 0        | 0        |
| Manganese  | ppm    | ASTM D5185m     | <b>0</b>     | <1       | 0        |
| Magnesium  | ppm    | ASTM D5185m     | <b>0</b>     | 0        | 0        |
| Calcium    | ppm    | ASTM D5185m     | <b>0</b>     | 0        | 0        |
| Phosphorus | ppm    | ASTM D5185m 2.3 | <b>&lt;1</b> | 1        | 1        |
| Zinc       | ppm    | ASTM D5185m     | <b>0</b>     | 0        | 0        |
| Sulfur     | ppm    | ASTM D5185m 26  | <b>0</b>     | 0        | 30       |

## CONTAMINANTS

|           | method | limit/base       | current      | history1 | history2 |
|-----------|--------|------------------|--------------|----------|----------|
| Silicon   | ppm    | ASTM D5185m >15  | <b>&lt;1</b> | 0        | 0        |
| Sodium    | ppm    | ASTM D5185m      | <b>1</b>     | 0        | 0        |
| Potassium | ppm    | ASTM D5185m >20  | <b>0</b>     | <1       | <1       |
| Water     | %      | ASTM D6304 >0.01 | <b>0.003</b> | 0.003    | 0.001    |
| ppm Water | ppm    | ASTM D6304 >100  | <b>30</b>    | 33.1     | 0.7      |

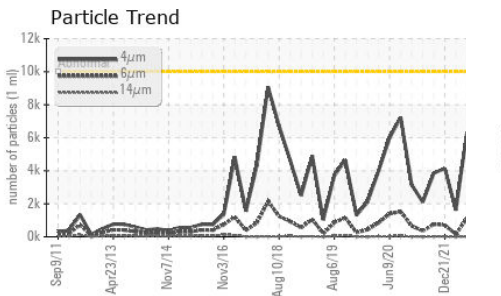
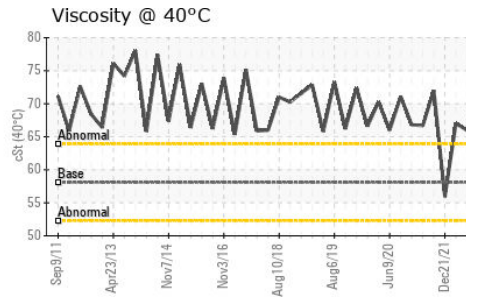
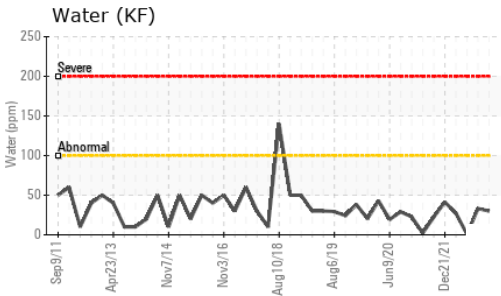
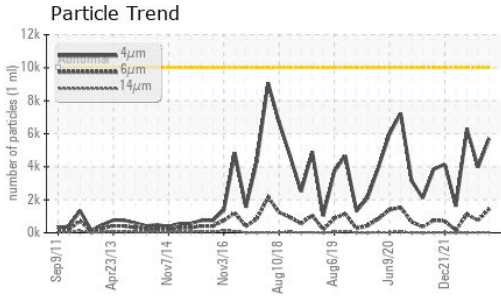
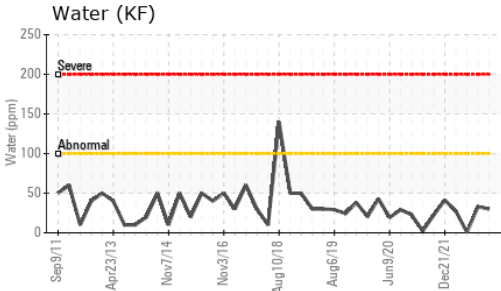
## FLUID CLEANLINESS

|                 | method       | limit/base | current         | history1 | history2 |
|-----------------|--------------|------------|-----------------|----------|----------|
| Particles >4µm  | ASTM D7647   | >10000     | <b>5697</b>     | 3971     | 6313     |
| Particles >6µm  | ASTM D7647   | >2500      | <b>1437</b>     | 757      | 1115     |
| Particles >14µm | ASTM D7647   | >320       | <b>28</b>       | 27       | 11       |
| Particles >21µm | ASTM D7647   | >80        | <b>3</b>        | 3        | 2        |
| Particles >38µm | ASTM D7647   | >20        | <b>0</b>        | 0        | 0        |
| Particles >71µm | ASTM D7647   | >4         | <b>0</b>        | 0        | 0        |
| Oil Cleanliness | ISO 4406 (c) | >20/18/15  | <b>20/18/12</b> | 19/17/12 | 20/17/11 |

## FLUID DEGRADATION

|                  | method   | limit/base | current      | history1 | history2 |
|------------------|----------|------------|--------------|----------|----------|
| Acid Number (AN) | mg KOH/g | ASTM D974  | <b>0.015</b> | 0.015    | 0.015    |

# OIL ANALYSIS REPORT

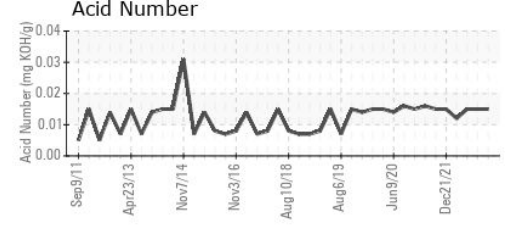
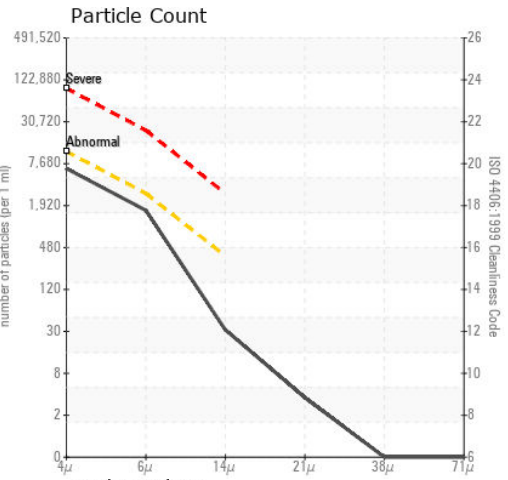
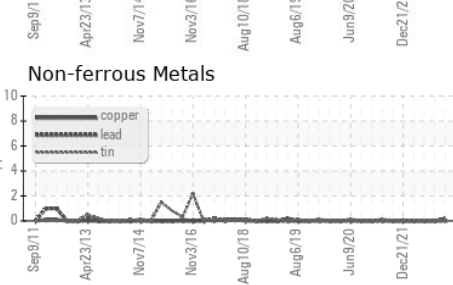


| VISUAL           | method | limit/base | current | history1 | history2 |
|------------------|--------|------------|---------|----------|----------|
| White Metal      | scalar | *Visual    | NONE    | NONE     | NONE     |
| Yellow Metal     | scalar | *Visual    | NONE    | NONE     | NONE     |
| Precipitate      | scalar | *Visual    | NONE    | NONE     | NONE     |
| Silt             | scalar | *Visual    | NONE    | NONE     | NONE     |
| Debris           | scalar | *Visual    | NONE    | NONE     | NONE     |
| Sand/Dirt        | scalar | *Visual    | NONE    | NONE     | NONE     |
| Appearance       | scalar | *Visual    | NORML   | NORML    | NORML    |
| Odor             | scalar | *Visual    | NORML   | NORML    | NORML    |
| Emulsified Water | scalar | *Visual    | >0.01   | NEG      | NEG      |
| Free Water       | scalar | *Visual    |         | NEG      | NEG      |

| FLUID PROPERTIES | method | limit/base | current | history1    | history2 |      |
|------------------|--------|------------|---------|-------------|----------|------|
| Visc @ 40°C      | cSt    | ASTM D445  | 58.09   | <b>74.4</b> | 73.5     | 66.0 |

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

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : USP250457  
**Lab Number** : **06028729**  
**Unique Number** : 10778520  
**Test Package** : IND 2

**HENNINGSEN COLD STORAGE - 17400**  
 17400 NE SACRAMENTO ST  
 PORTLAND, OR  
 US 97230  
 Contact: Service Manager

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)

T:  
 F: (503)252-5257