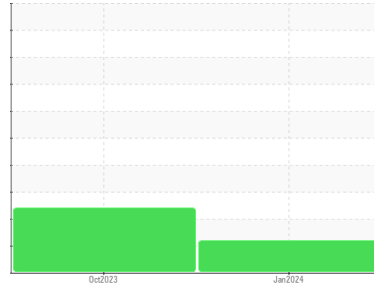




Machine Id  
**GARDNER DENVER D065298 - LONGHORN LOCKERS**  
 Component  
**Compressor**  
 Fluid  
**QUINCY QUINSYN (--- GAL)**



## DIAGNOSIS

### Recommendation

No corrective action is recommended at this time. The filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### Contamination

There is a moderate amount of silt (particulates < 14 microns in size) present in the oil.

### 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>TO50001876</b>  | QUC0000537  | ---      |
| Sample Date   | Client Info |             | <b>08 Jan 2024</b> | 20 Oct 2023 | ---      |
| Machine Age   | hrs         | Client Info | <b>21821</b>       | 21812       | ---      |
| Oil Age       | hrs         | Client Info | <b>0</b>           | 0           | ---      |
| Oil Changed   | Client Info |             | <b>Not Changed</b> | Changed     | ---      |
| Sample Status |             |             | <b>ATTENTION</b>   | ABNORMAL    | ---      |

## WEAR METALS

|          | method | limit/base      | current | history1 | history2 |
|----------|--------|-----------------|---------|----------|----------|
| Iron     | ppm    | ASTM D5185m >50 | <1      | <1       | ---      |
| Chromium | ppm    | ASTM D5185m >10 | <1      | 0        | ---      |
| Nickel   | ppm    | ASTM D5185m     | 0       | 0        | ---      |
| Titanium | ppm    | ASTM D5185m     | <1      | 0        | ---      |
| Silver   | ppm    | ASTM D5185m     | 0       | 0        | ---      |
| Aluminum | ppm    | ASTM D5185m >25 | 2       | 7        | ---      |
| Lead     | ppm    | ASTM D5185m >25 | 0       | 0        | ---      |
| Copper   | ppm    | ASTM D5185m >50 | <1      | <1       | ---      |
| Tin      | ppm    | ASTM D5185m >15 | <1      | <1       | ---      |
| Vanadium | ppm    | ASTM D5185m     | 0       | 0        | ---      |
| Cadmium  | ppm    | ASTM D5185m     | 0       | 0        | ---      |

## ADDITIVES

|            | method | limit/base  | current | history1 | history2 |
|------------|--------|-------------|---------|----------|----------|
| Boron      | ppm    | ASTM D5185m | 0       | 0        | ---      |
| Barium     | ppm    | ASTM D5185m | 0       | 0        | ---      |
| Molybdenum | ppm    | ASTM D5185m | <1      | 0        | ---      |
| Manganese  | ppm    | ASTM D5185m | 0       | 0        | ---      |
| Magnesium  | ppm    | ASTM D5185m | 0       | 1        | ---      |
| Calcium    | ppm    | ASTM D5185m | 0       | 3        | ---      |
| Phosphorus | ppm    | ASTM D5185m | 17      | 50       | ---      |
| Zinc       | ppm    | ASTM D5185m | 47      | 48       | ---      |
| Sulfur     | ppm    | ASTM D5185m | 359     | 426      | ---      |

## CONTAMINANTS

|           | method | limit/base       | current      | history1 | history2 |
|-----------|--------|------------------|--------------|----------|----------|
| Silicon   | ppm    | ASTM D5185m >25  | 1            | 5        | ---      |
| Sodium    | ppm    | ASTM D5185m      | 0            | <1       | ---      |
| Potassium | ppm    | ASTM D5185m >20  | 2            | <1       | ---      |
| Water     | %      | ASTM D6304 >0.1  | <b>0.029</b> | 0.031    | ---      |
| ppm Water | ppm    | ASTM D6304 >1000 | <b>297</b>   | 313.9    | ---      |

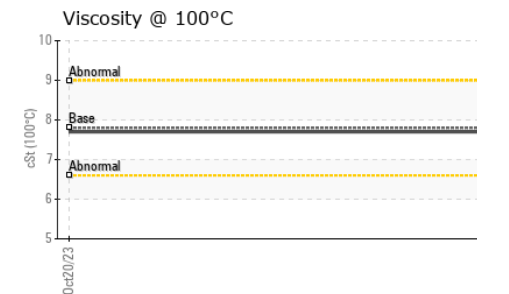
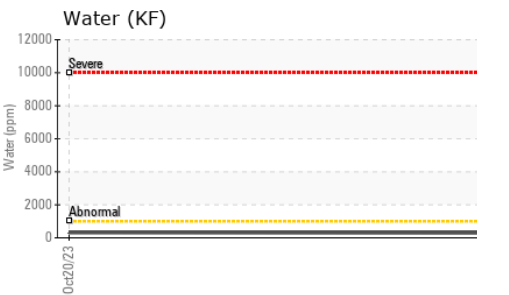
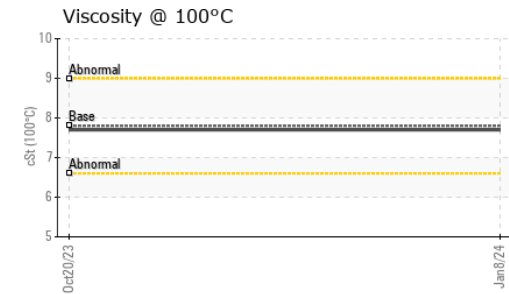
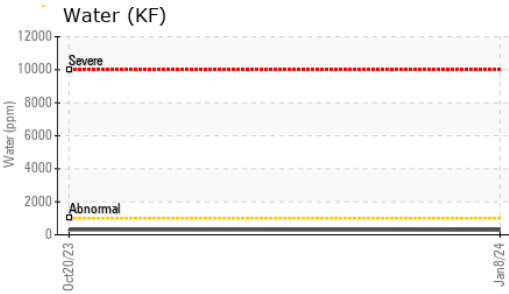
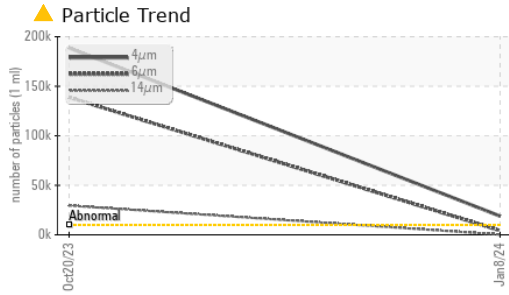
## FLUID CLEANLINESS

|                 | method       | limit/base | current           | history1   | history2 |
|-----------------|--------------|------------|-------------------|------------|----------|
| Particles >4µm  | ASTM D7647   | >10000     | ▲ <b>18889</b>    | ▲ 188683   | ---      |
| Particles >6µm  | ASTM D7647   | >2500      | ▲ <b>4300</b>     | ▲ 138771   | ---      |
| Particles >14µm | ASTM D7647   | >320       | <b>223</b>        | ▲ 29540    | ---      |
| Particles >21µm | ASTM D7647   | >80        | <b>45</b>         | ▲ 8004     | ---      |
| Particles >38µm | ASTM D7647   | >20        | <b>1</b>          | ▲ 153      | ---      |
| Particles >71µm | ASTM D7647   | >4         | <b>0</b>          | 2          | ---      |
| Oil Cleanliness | ISO 4406 (c) | >20/18/15  | ▲ <b>21/19/15</b> | ▲ 25/24/22 | ---      |

## FLUID DEGRADATION

|                  | method   | limit/base     | current     | history1 | history2 |
|------------------|----------|----------------|-------------|----------|----------|
| Acid Number (AN) | mg KOH/g | ASTM D8045 .10 | <b>0.30</b> | 0.31     | ---      |

# OIL ANALYSIS REPORT

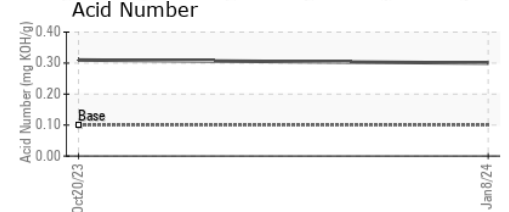
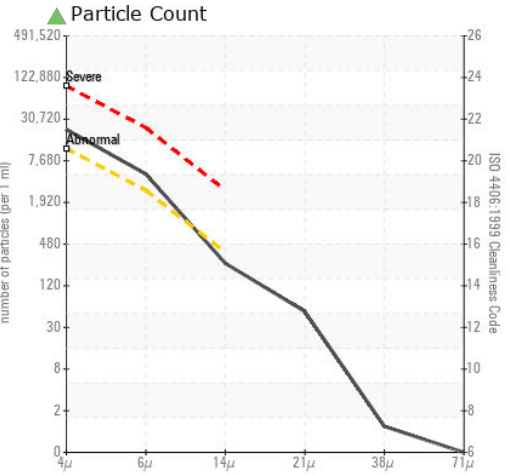
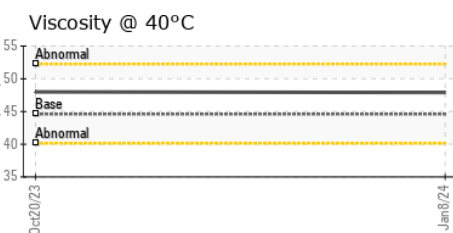
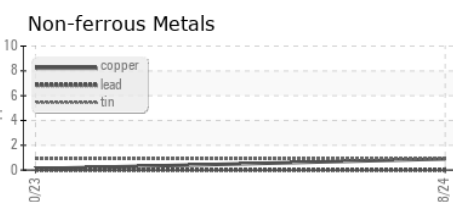
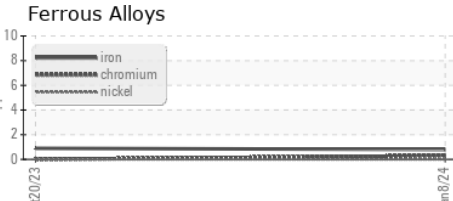


| VISUAL           | method | limit/base | current | history1 | history2 |
|------------------|--------|------------|---------|----------|----------|
| White Metal      | scalar | *Visual    | NONE    | NONE     | ---      |
| Yellow Metal     | scalar | *Visual    | NONE    | NONE     | ---      |
| Precipitate      | scalar | *Visual    | NONE    | NONE     | ---      |
| Silt             | scalar | *Visual    | NONE    | LIGHT    | ---      |
| 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    | >0.1    | NEG      | ---      |
| Free Water       | scalar | *Visual    |         | NEG      | ---      |

| FLUID PROPERTIES     | method | limit/base | current | history1 | history2 |
|----------------------|--------|------------|---------|----------|----------|
| Visc @ 40°C          | cSt    | ASTM D445  | 44.6    | 47.9     | 48.0     |
| Visc @ 100°C         | cSt    | ASTM D445  | 7.8     | 7.7      | 7.7      |
| Viscosity Index (VI) | Scale  | ASTM D2270 | 132     | 127      | 127      |

| SAMPLE IMAGES | method | limit/base | current | history1 | history2 |
|---------------|--------|------------|---------|----------|----------|
| Color         |        |            |         |          | no image |
| Bottom        |        |            |         |          | no image |

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : TO50001876 **Received** : 30 Jan 2024  
**Lab Number** : 06074697 **Diagnosed** : 01 Feb 2024  
**Unique Number** : 10856788 **Diagnostician** : Jonathan Hester  
**Test Package** : IND 2 ( Additional Tests: KF, KV100, PrtCount, VI )

**QUALITY COMPRESSOR**  
 4428 CR 616  
 ALVARADO, TX  
 US 76009  
 Contact: SEAN  
 SEAN@QCOMPRESSOR.COM  
 T: (817)822-1333  
 F:

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)