

# **OIL ANALYSIS REPORT**

#### Sample Rating Trend

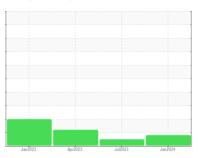
ISO

# Machine Id CHICAGO PNEUMATIC CAI904182 - LONGHORN LOCKERS

Component

**Compressor** Fluid

**ROTAIR XTRA (--- GAL)** 





#### ▲ 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.

|                  |          | Jan 202      | 3 Apr2023  | Jul2023 Ja       | in2024      |                  |
|------------------|----------|--------------|------------|------------------|-------------|------------------|
| SAMPLE INFORM    | MATION   | method       | limit/base | current          | history1    | history2         |
| Sample Number    |          | Client Info  |            | TO50001874       | QUC0000453  | QUC0000446       |
| Sample Date      |          | Client Info  |            | 08 Jan 2024      | 28 Jul 2023 | 11 Apr 2023      |
| Machine Age      | hrs      | Client Info  |            | 772              | 378         | 19872            |
| Oil Age          | hrs      | Client Info  |            | 0                | 0           | 0                |
| Oil Changed      |          | Client Info  |            | Not Changd       | Not Changd  | Not Changd       |
| Sample Status    |          |              |            | ATTENTION        | NORMAL      | ATTENTION        |
| WEAR METALS      |          | method       | limit/base | current          | history1    | history2         |
| Iron             | ppm      | ASTM D5185m  | >50        | 0                | 0           | 0                |
| Chromium         | ppm      | ASTM D5185m  | >10        | <1               | 0           | 0                |
| Nickel           | ppm      | ASTM D5185m  |            | 0                | 0           | 0                |
| Titanium         | ppm      | ASTM D5185m  |            | <1               | <1          | 0                |
| Silver           | ppm      | ASTM D5185m  |            | 0                | 0           | 0                |
| Aluminum         | ppm      | ASTM D5185m  | >25        | 2                | <1          | 6                |
| Lead             | ppm      | ASTM D5185m  | >25        | 0                | 0           | 0                |
| Copper           | ppm      | ASTM D5185m  | >50        | <1               | 1           | 0                |
| Tin              | ppm      | ASTM D5185m  | >15        | <1               | 0           | 0                |
| Vanadium         | ppm      | ASTM D5185m  |            | 0                | <1          | 0                |
| Cadmium          | ppm      | ASTM D5185m  |            | 0                | 0           | 0                |
| 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           | 0                |
| Manganese        | ppm      | ASTM D5185m  |            | 0                | <1          | 0                |
| Magnesium        | ppm      | ASTM D5185m  |            | 0                | 1           | 5                |
| Calcium          | ppm      | ASTM D5185m  |            | 0                | 0           | 0                |
| Phosphorus       | ppm      | ASTM D5185m  |            | 37               | 48          | 53               |
| Zinc             | ppm      | ASTM D5185m  |            | 48               | 105         | 108              |
| Sulfur           | ppm      | ASTM D5185m  |            | 102              | 138         | 0                |
| CONTAMINANTS     |          | method       | limit/base | current          | history1    | history2         |
| Silicon          | ppm      | ASTM D5185m  | >25        | 0                | <1          | 0                |
| Sodium           | ppm      | ASTM D5185m  |            | 0                | 2           | 0                |
| Potassium        | ppm      | ASTM D5185m  | >20        | 2                | 0           | 0                |
| Water            | %        | ASTM D6304   | >0.1       | 0.006            | 0.024       | 0.007            |
| ppm Water        | ppm      | ASTM D6304   | >1000      | 67               | 242.4       | 71.2             |
| FLUID CLEANLIN   | IESS     | method       | limit/base | current          | history1    | history2         |
| Particles >4μm   |          | ASTM D7647   | >10000     | 8733             | 5453        | <b>11155</b>     |
| Particles >6µm   |          | ASTM D7647   | >2500      | <b>2962</b>      | 2075        | ▲ 3657           |
| Particles >14μm  |          | ASTM D7647   | >320       | 298              | 274         | 313              |
| Particles >21µm  |          | ASTM D7647   | >80        | 89               | 92          | 92               |
| Particles >38µm  |          | ASTM D7647   | >20        | 4                | 3           | 5                |
| Particles >71μm  |          | ASTM D7647   | >4         | 0                | 0           | 0                |
| Oil Cleanliness  |          | ISO 4406 (c) | >20/18/15  | <b>2</b> 0/19/15 | 20/18/15    | <b>2</b> 1/19/15 |
| FLUID DEGRADA    | TION     | method       | limit/base | current          | history1    | history2         |
| Acid Number (AN) | mg KOH/g | ASTM D8045   |            | 0.24             | 0.20        | 0.19             |



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