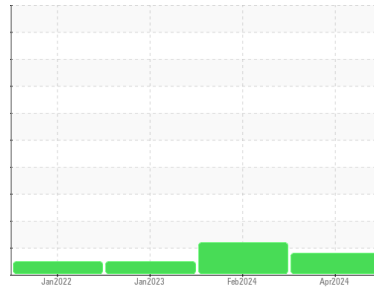




OIL ANALYSIS REPORT

Sample Rating Trend



WEAR



Area

ACI-10K

Machine Id

CHICAGO PNEUMATIC ITJ6393335 - HIGHWAY MOTORS IDEALEASE

Component

Compressor

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

An increase in the aluminum level is noted. All other component wear rates are normal.

Contamination

There is no indication of any contamination 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 | | UAC06150527 | UAC06093090 | UCH05739786 |
| Sample Date | Client Info | | 15 Apr 2024 | 12 Feb 2024 | 11 Jan 2023 |
| Machine Age | hrs | Client Info | 8500 | 7903 | 5432 |
| Oil Age | hrs | Client Info | 0 | 5156 | 5432 |
| Oil Changed | Client Info | | Not Changed | Changed | Not Changed |
| Sample Status | | | ATTENTION | MARGINAL | NORMAL |

CONTAMINATION

| | method | limit/base | current | history1 | history2 |
|-------|-----------|------------|------------|----------|----------|
| Water | WC Method | >0.1 | NEG | NEG | NEG |

WEAR METALS

| | method | limit/base | current | history1 | history2 |
|----------|--------|-----------------|--------------|----------|----------|
| Iron | ppm | ASTM D5185m >50 | 2 | 2 | 4 |
| Chromium | ppm | ASTM D5185m >10 | 0 | 0 | 0 |
| Nickel | ppm | ASTM D5185m | <1 | 2 | 1 |
| Titanium | ppm | ASTM D5185m | <1 | 0 | 0 |
| Silver | ppm | ASTM D5185m | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m >25 | 17 | 1 | <1 |
| Lead | ppm | ASTM D5185m >25 | 0 | 1 | 0 |
| Copper | ppm | ASTM D5185m >50 | 3 | 8 | 4 |
| Tin | ppm | ASTM D5185m >15 | <1 | <1 | 0 |
| Antimony | ppm | ASTM D5185m | --- | --- | --- |
| Vanadium | ppm | ASTM D5185m | 0 | 0 | 0 |
| Cadmium | ppm | ASTM D5185m | 0 | 0 | 0 |

ADDITIVES

| | method | limit/base | current | history1 | history2 |
|------------|--------|------------------|--------------|----------|----------|
| Boron | ppm | ASTM D5185m 0.1 | 0 | 0 | 0 |
| Barium | ppm | ASTM D5185m 0.8 | <1 | <1 | 0 |
| Molybdenum | ppm | ASTM D5185m 0 | 0 | 0 | 0 |
| Manganese | ppm | ASTM D5185m 0.9 | 1 | <1 | <1 |
| Magnesium | ppm | ASTM D5185m 0 | 9 | 44 | 12 |
| Calcium | ppm | ASTM D5185m 0 | 53 | 403 | 535 |
| Phosphorus | ppm | ASTM D5185m 409 | 132 | 368 | 372 |
| Zinc | ppm | ASTM D5185m 0 | 170 | 864 | 419 |
| Sulfur | ppm | ASTM D5185m 1290 | 2309 | 7861 | 8578 |

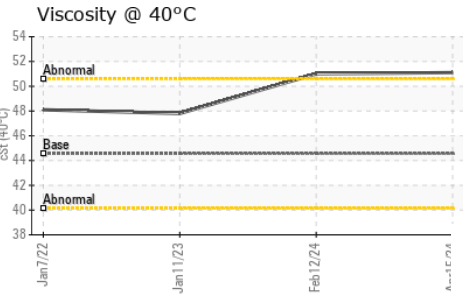
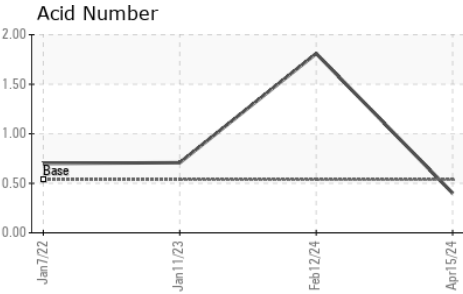
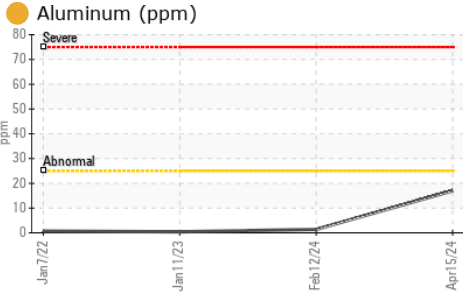
CONTAMINANTS

| | method | limit/base | current | history1 | history2 |
|-----------|--------|-----------------|-----------|----------|----------|
| Silicon | ppm | ASTM D5185m >25 | 12 | 2 | 2 |
| Sodium | ppm | ASTM D5185m | 8 | 9 | 4 |
| Potassium | ppm | ASTM D5185m >20 | 3 | 4 | <1 |

FLUID DEGRADATION

| | method | limit/base | current | history1 | history2 |
|------------------|----------|------------------|-------------|----------|----------|
| Acid Number (AN) | mg KOH/g | ASTM D8045 0.537 | 0.40 | ▲ 1.81 | 0.708 |

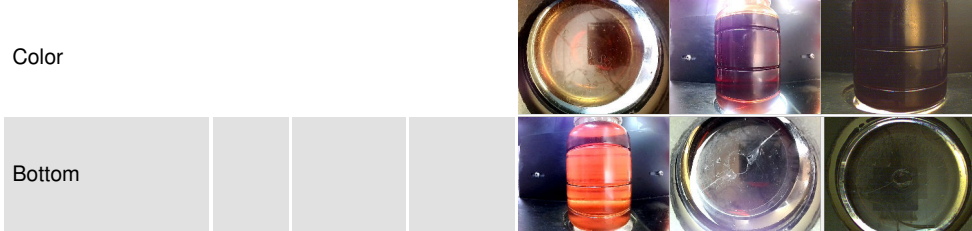
OIL ANALYSIS REPORT



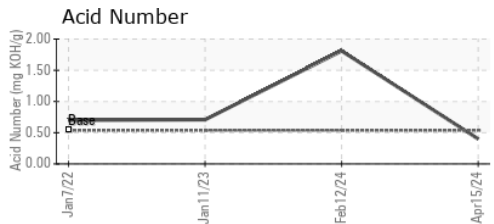
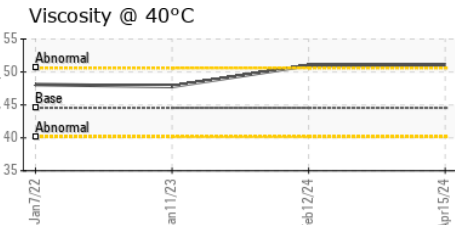
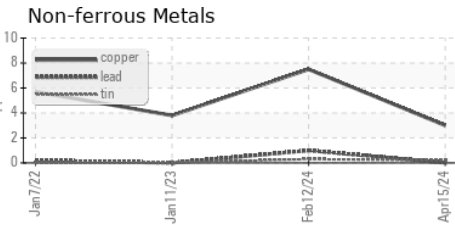
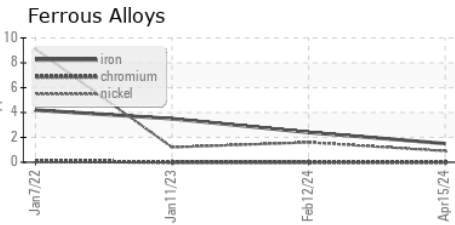
| VISUAL | method | limit/base | current | history1 | history2 |
|------------------|--------|------------|---------|----------|----------|
| White Metal | scalar | *Visual | NONE | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE |
| Precipitate | scalar | *Visual | NONE | NONE |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

| FLUID PROPERTIES | method | limit/base | current | history1 | history2 |
|------------------|--------|------------|---------|----------|----------|
| Visc @ 40°C | cSt | ASTM D445 | 44.56 | 51.1 | 51.0 |

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



GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : UAC06150527 **Received** : 16 Apr 2024
Lab Number : 06150527 **Tested** : 17 Apr 2024
Unique Number : 10980605 **Diagnosed** : 18 Apr 2024 - Sean Felton
Test Package : IND 2

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 2144 SALEM INDUSTRIAL DRIVE
 SALEM, VA
 US 24153
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 bill@atlanticcompressors.com
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 F: (757)216-0134

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)