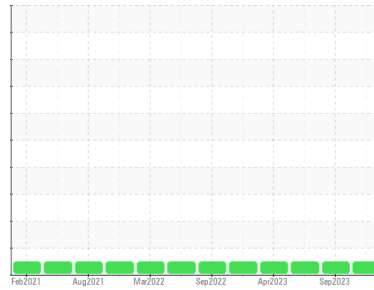




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Area
SYNOIL 8K
 Machine Id
ATLAS COPCO GA-180 AIF067757 - AMCOR
 Component
Compressor

DIAGNOSIS

Recommendation

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

Wear

All component wear rates are normal.

Contamination

Moderate concentration of visible dirt/debris 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 | | UCZ06007771 | UCZ05951512 | UCZ05901917 |
| Sample Date | Client Info | | 01 Nov 2023 | 08 Sep 2023 | 07 Jul 2023 |
| Machine Age | hrs | Client Info | 164710 | 163414 | 161913 |
| Oil Age | hrs | Client Info | 6700 | 5403 | 3402 |
| 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 >50 | 0 | 2 | 1 |
| Chromium | ppm | ASTM D5185m >5 | 0 | 0 | 0 |
| Nickel | ppm | ASTM D5185m | 0 | 0 | 0 |
| Titanium | ppm | ASTM D5185m | <1 | 0 | 0 |
| Silver | ppm | ASTM D5185m | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m >15 | 0 | 0 | 1 |
| Lead | ppm | ASTM D5185m >65 | 0 | 0 | 0 |
| Copper | ppm | ASTM D5185m >65 | 12 | 8 | 2 |
| Tin | ppm | ASTM D5185m >10 | 0 | 0 | 0 |
| Vanadium | ppm | ASTM D5185m | <1 | 0 | 0 |
| Cadmium | ppm | ASTM D5185m | 0 | 0 | 0 |

ADDITIVES

| | method | limit/base | current | history1 | history2 |
|------------|--------|------------------|------------|----------|----------|
| Boron | ppm | ASTM D5185m 0.3 | 0 | 0 | 0 |
| Barium | ppm | ASTM D5185m 0.3 | 0 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m 0 | 0 | 0 | 0 |
| Manganese | ppm | ASTM D5185m 0.9 | 0 | <1 | 0 |
| Magnesium | ppm | ASTM D5185m 0.2 | 0 | <1 | 0 |
| Calcium | ppm | ASTM D5185m 0.1 | 0 | 0 | 0 |
| Phosphorus | ppm | ASTM D5185m 429 | 206 | 313 | 317 |
| Zinc | ppm | ASTM D5185m 0.3 | 0 | 11 | 10 |
| Sulfur | ppm | ASTM D5185m 1336 | 0 | 529 | 607 |

CONTAMINANTS

| | method | limit/base | current | history1 | history2 |
|-----------|--------|-----------------|--------------|----------|----------|
| Silicon | ppm | ASTM D5185m >35 | 0 | 0 | 0 |
| Sodium | ppm | ASTM D5185m | <1 | 1 | 0 |
| Potassium | ppm | ASTM D5185m >20 | 0 | <1 | <1 |

FLUID DEGRADATION

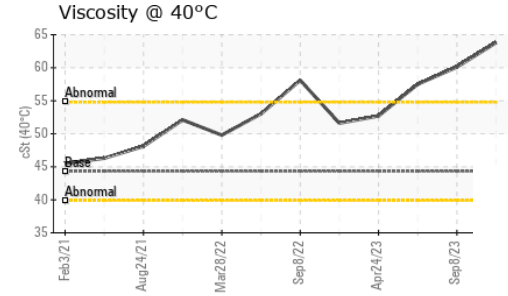
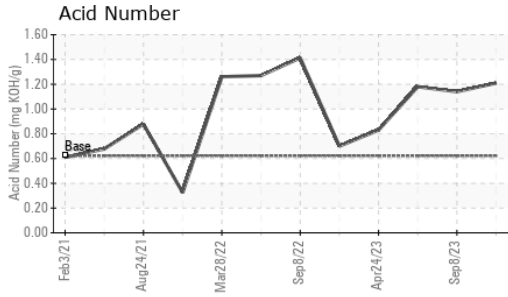
| | method | limit/base | current | history1 | history2 |
|------------------|----------|------------------|-------------|----------|----------|
| Acid Number (AN) | mg KOH/g | ASTM D8045 0.622 | 1.21 | 1.14 | 1.18 |

VISUAL

| | method | limit/base | current | history1 | history2 |
|------------------|--------|---------------|--------------|----------|----------|
| White Metal | scalar | *Visual NONE | NONE | NONE | NONE |
| Yellow Metal | scalar | *Visual NONE | NONE | NONE | NONE |
| Precipitate | scalar | *Visual NONE | NONE | NONE | NONE |
| Silt | scalar | *Visual NONE | NONE | NONE | NONE |
| Debris | scalar | *Visual NONE | MODER | NONE | NONE |
| Sand/Dirt | scalar | *Visual NONE | NONE | NONE | NONE |
| Appearance | scalar | *Visual NORML | NORML | NORML | NORML |
| Odor | scalar | *Visual NORML | NORML | NORML | NORML |
| Emulsified Water | scalar | *Visual >0.1 | NEG | NEG | NEG |
| Free Water | scalar | *Visual | NEG | NEG | NEG |

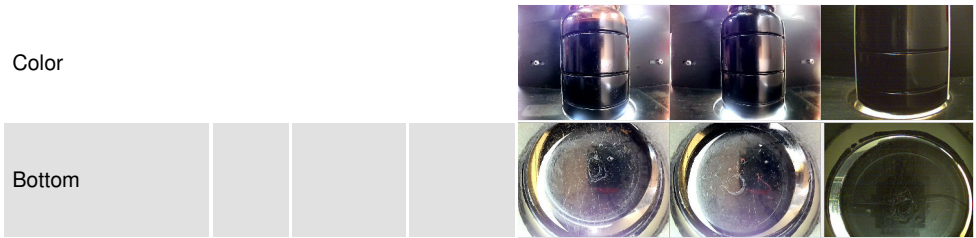


OIL ANALYSIS REPORT

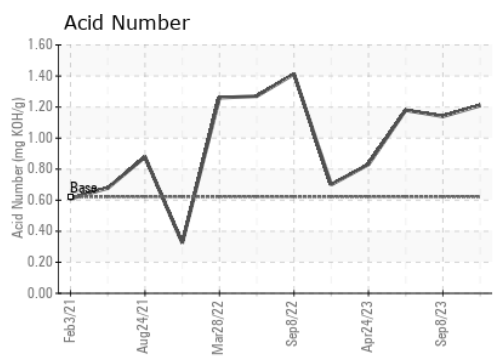
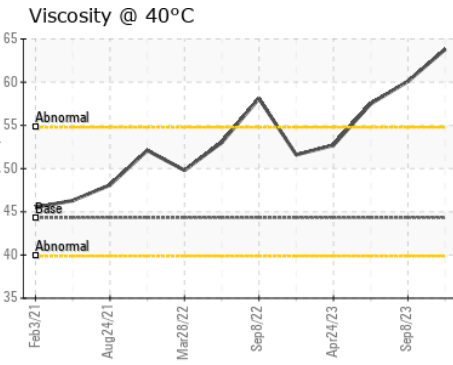
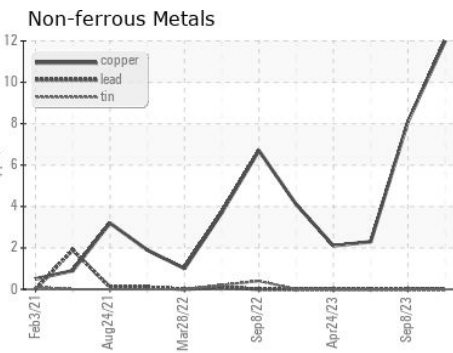
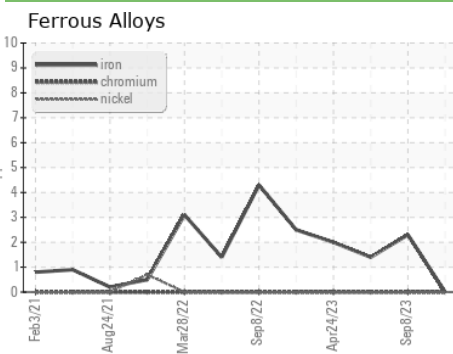


| FLUID PROPERTIES | method | limit/base | current | history1 | history2 | |
|------------------|--------|------------|---------|-------------|----------|------|
| Visc @ 40°C | cSt | ASTM D445 | 44.32 | 63.8 | 60.1 | 57.5 |

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



GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : UCZ06007771 **Received** : 14 Nov 2023
Lab Number : **06007771** **Diagnosed** : 16 Nov 2023
Unique Number : 10741533 **Diagnostician** : Don Baldrige
Test Package : IND 2

ZORN COMP & EQUIPMENT CO (GB)
 733 POTTS AVE
 GREEN BAY, WI
 US 54304
 Contact: DEAN SCHAD
 dean.schad@zornair.com
 T: (920)391-8121
 F: (920)499-1168

Certificate L2367
 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)