



OIL ANALYSIS REPORT

| | |
|-----------------|---------------|
| WEAR | NORMAL |
| CONTAMINATION | NORMAL |
| FLUID CONDITION | NORMAL |

Area
Compressors
Machine Id
Low Stage #2 (S/N S0192RFMFTHAA03)
Component
Rotary Compressor
Fluid
PRIMARY FOOD GRADE 46 (40 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|-----|-------------|-----------|--------------------|-------------|-------------|
| Sample Number | | Client Info | | WC0436633 | WC0861031 | WC0861033 |
| Sample Date | | Client Info | | 02 Oct 2023 | 25 Sep 2023 | 25 Sep 2023 |
| Machine Age | hrs | Client Info | | 0 | 75848 | 75087 |
| Oil Age | hrs | Client Info | | 0 | 0 | 0 |
| Filter Age | hrs | Client Info | | 0 | 0 | 0 |
| Oil Changed | | Client Info | | Filtered | N/A | N/A |
| Filter Changed | | Client Info | | N/A | N/A | N/A |
| Sample Status | | | | NORMAL | NORMAL | ABNORMAL |

WEAR

All component wear rates are normal.

| | | | | | | |
|--------------|--------|---------------|------|--------------|------|------|
| PQ | | ASTM D8184* | | 0 | 0 | 0 |
| Iron | ppm | ASTM D5185(m) | >70 | <1 | <1 | 0 |
| Chromium | ppm | ASTM D5185(m) | >10 | 0 | 0 | <1 |
| Nickel | ppm | ASTM D5185(m) | | <1 | 0 | <1 |
| Titanium | ppm | ASTM D5185(m) | | 0 | 0 | 0 |
| Silver | ppm | ASTM D5185(m) | | <1 | <1 | <1 |
| Aluminum | ppm | ASTM D5185(m) | >3 | 0 | 0 | 0 |
| Lead | ppm | ASTM D5185(m) | >4 | 0 | <1 | 0 |
| Copper | ppm | ASTM D5185(m) | >20 | <1 | <1 | <1 |
| Tin | ppm | ASTM D5185(m) | >3 | 0 | 0 | 0 |
| Vanadium | ppm | ASTM D5185(m) | | 0 | 0 | 0 |
| White Metal | scalar | Visual* | NONE | NONE | NONE | NONE |
| Yellow Metal | scalar | Visual* | NONE | NONE | NONE | NONE |

CONTAMINATION

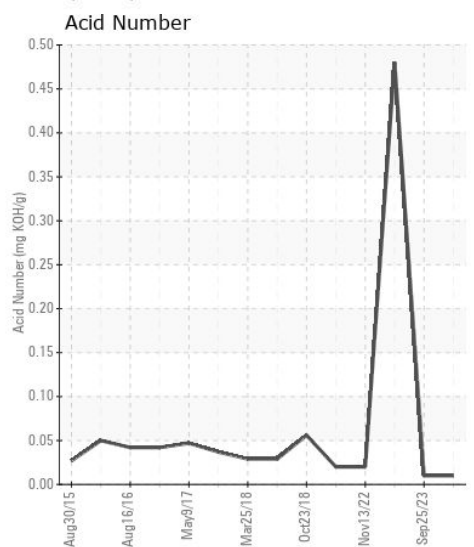
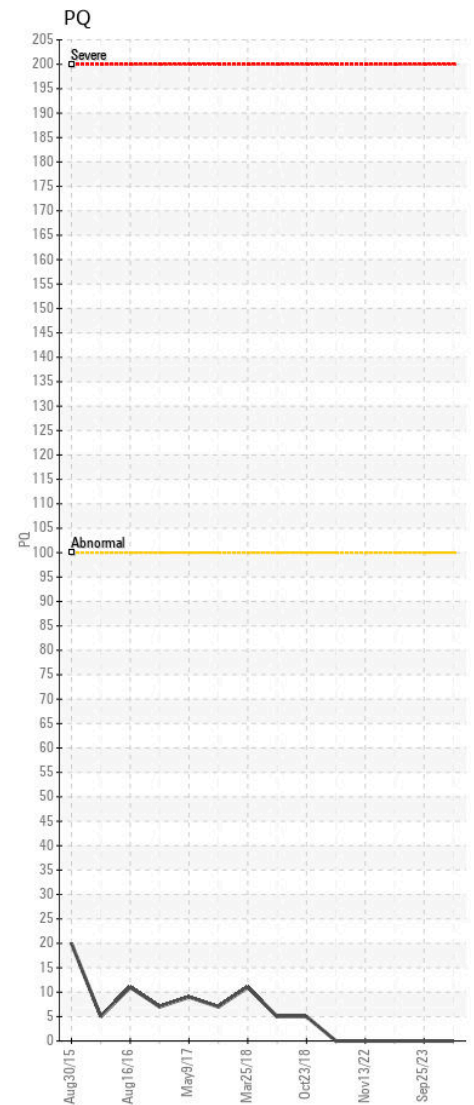
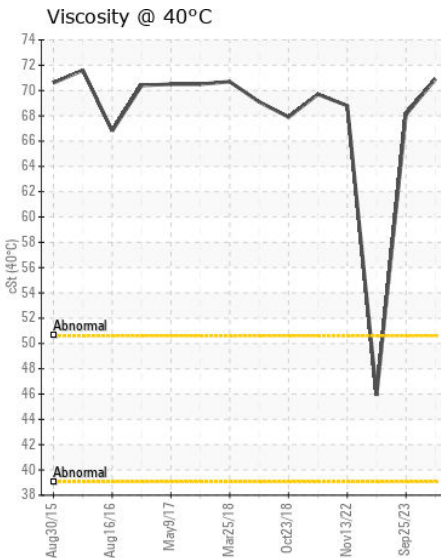
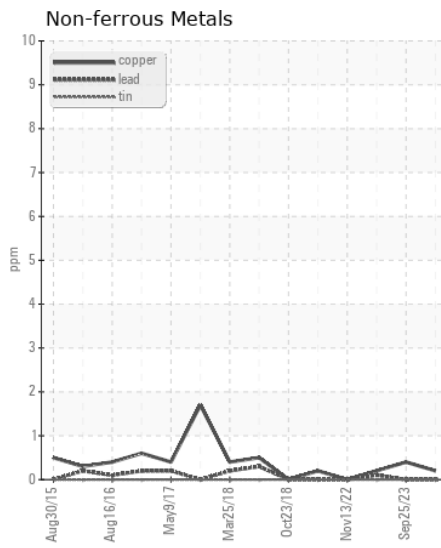
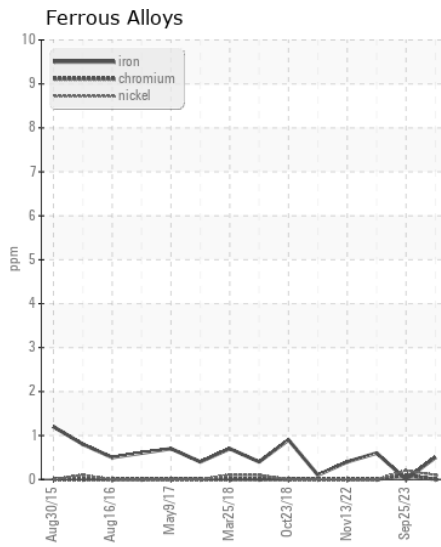
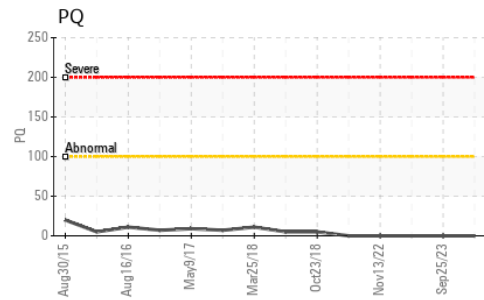
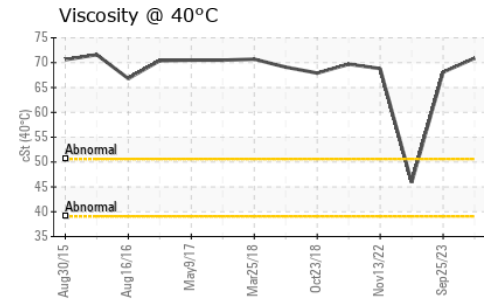
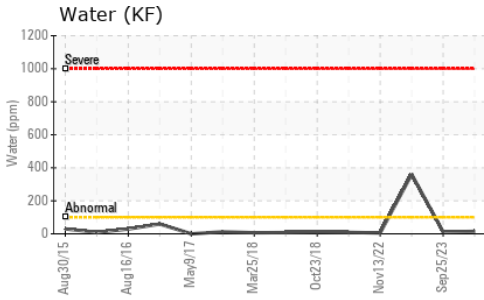
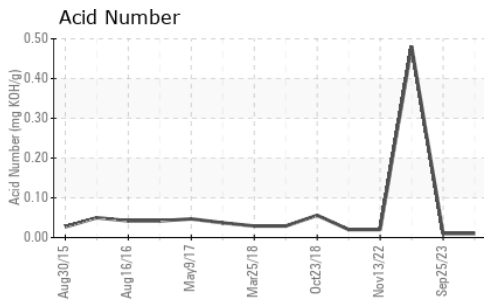
The water content is negligible. There is no indication of any contamination in the oil.

| | | | | | | |
|------------------|--------|---------------|-------|--------------|-------|-------|
| Silicon | ppm | ASTM D5185(m) | >45 | <1 | 0 | <1 |
| Potassium | ppm | ASTM D5185(m) | >20 | 0 | 0 | 0 |
| Water | % | ASTM D6304* | >0.6 | 0.001 | 0.001 | 0.036 |
| ppm Water | ppm | ASTM D6304* | | 14.8 | 12.1 | 360.1 |
| Silt | scalar | Visual* | NONE | NONE | NONE | NONE |
| Debris | scalar | Visual* | NONE | NONE | NONE | LIGHT |
| Sand/Dirt | scalar | Visual* | NONE | NONE | NONE | NONE |
| Appearance | scalar | Visual* | NORML | NORML | NORML | HAZY |
| Odor | scalar | Visual* | NORML | NORML | NORML | NORML |
| Emulsified Water | scalar | Visual* | >0.6 | NEG | NEG | .5% |

FLUID CONDITION

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

| | | | | | | |
|------------------|----------|---------------|--|--------------|------|--------|
| Sodium | ppm | ASTM D5185(m) | | <1 | <1 | 1 |
| Boron | ppm | ASTM D5185(m) | | <1 | <1 | <1 |
| Barium | ppm | ASTM D5185(m) | | 6 | 4 | <1 |
| Molybdenum | ppm | ASTM D5185(m) | | 0 | 0 | 0 |
| Manganese | ppm | ASTM D5185(m) | | 0 | 0 | 0 |
| Magnesium | ppm | ASTM D5185(m) | | 0 | 0 | 1 |
| Calcium | ppm | ASTM D5185(m) | | 1 | 3 | 1 |
| Phosphorus | ppm | ASTM D5185(m) | | <1 | 0 | 159 |
| Zinc | ppm | ASTM D5185(m) | | 2 | <1 | 8 |
| Sulfur | ppm | ASTM D5185(m) | | 20 | 38 | 68 |
| Acid Number (AN) | mg KOH/g | ASTM D974* | | 0.01 | 0.01 | 0.48 |
| Visc @ 40°C | cSt | ASTM D7279(m) | | 70.9 | 68.1 | ▲ 45.9 |



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0436633
Lab Number : 02586427
Unique Number : 5655493
Test Package : IND 2 (Additional Tests: KF)
Received : 03 Oct 2023
Tested : 04 Oct 2023
Diagnosed : 04 Oct 2023 - Wes Davis

To discuss this sample report, contact Customer Service at 1-800-268-2131.
 Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.
 Validity of results and interpretation are based on the sample and information as supplied.

Cargill Ltd.
 180 Watson Parkway South
 Guelph, ON
 CA N1L 1K8
 Contact: Eoin Roe
 eoin_roe@cargill.com
 T: (519)823-5200
 F: (416)748-5075