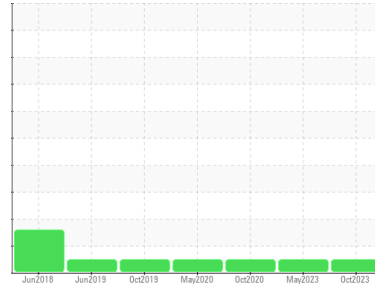




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Area

[449087]

Machine Id

21CBN BUCKET SCREW CONVEYOR

Component

Gearbox

Fluid

SUNOLEC 9815 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.
NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

Wear

All 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 | | WC0802588 | WC0582740 | WC0498964 |
| Sample Date | Client Info | | 05 Oct 2023 | 08 May 2023 | 26 Oct 2020 |
| Machine Age | yrs | Client Info | 0 | 0 | 10 |
| Oil Age | yrs | Client Info | 0 | 0 | 1 |
| Oil Changed | Client Info | | Not Changed | Not Changed | Not Changed |
| Sample Status | | | NORMAL | NORMAL | NORMAL |

WEAR METALS

| | method | limit/base | current | history1 | history2 |
|-----------|-------------|--------------------|--------------|----------|----------|
| PQ | ASTM D8184* | | 1 | 22 | 75 |
| Iron | ppm | ASTM D5185(m) >200 | 23 | 42 | 43 |
| Chromium | ppm | ASTM D5185(m) >15 | 0 | <1 | <1 |
| Nickel | ppm | ASTM D5185(m) >15 | 0 | <1 | <1 |
| Titanium | ppm | ASTM D5185(m) | 0 | 0 | 0 |
| Silver | ppm | ASTM D5185(m) | <1 | 0 | 0 |
| Aluminum | ppm | ASTM D5185(m) >25 | <1 | <1 | <1 |
| Lead | ppm | ASTM D5185(m) >100 | <1 | 0 | 0 |
| Copper | ppm | ASTM D5185(m) >200 | <1 | 0 | <1 |
| Tin | ppm | ASTM D5185(m) >25 | 0 | 0 | 0 |
| Antimony | ppm | ASTM D5185(m) >5 | 0 | <1 | 0 |
| Vanadium | ppm | ASTM D5185(m) | 0 | 0 | 0 |
| Beryllium | ppm | ASTM D5185(m) | 0 | 0 | 0 |
| Cadmium | ppm | ASTM D5185(m) | 0 | 0 | 0 |

ADDITIVES

| | method | limit/base | current | history1 | history2 |
|------------|--------|---------------|--------------|----------|----------|
| Boron | ppm | ASTM D5185(m) | 78 | 77 | 80 |
| Barium | ppm | ASTM D5185(m) | <1 | <1 | <1 |
| Molybdenum | ppm | ASTM D5185(m) | 0 | 0 | <1 |
| Manganese | ppm | ASTM D5185(m) | 0 | <1 | <1 |
| Magnesium | ppm | ASTM D5185(m) | 3 | 3 | 3 |
| Calcium | ppm | ASTM D5185(m) | 4 | 2 | 4 |
| Phosphorus | ppm | ASTM D5185(m) | 1123 | 1232 | 1107 |
| Zinc | ppm | ASTM D5185(m) | 6 | 5 | 4 |
| Sulfur | ppm | ASTM D5185(m) | 16850 | 16445 | 16525 |
| Lithium | ppm | ASTM D5185(m) | <1 | <1 | <1 |

CONTAMINANTS

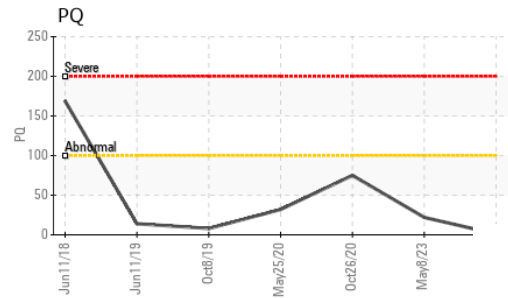
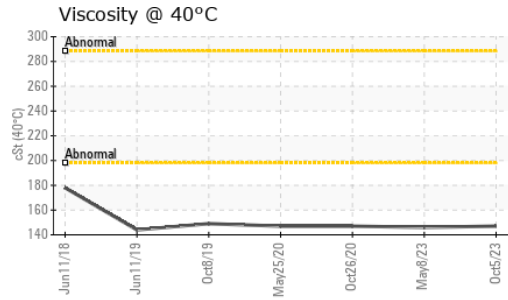
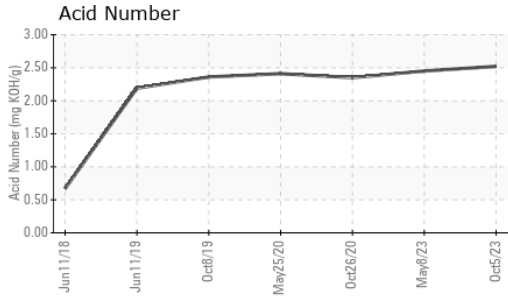
| | method | limit/base | current | history1 | history2 |
|-----------|--------|-------------------|--------------|----------|----------|
| Silicon | ppm | ASTM D5185(m) >50 | 6 | 6 | 6 |
| Sodium | ppm | ASTM D5185(m) | 5 | 5 | 4 |
| Potassium | ppm | ASTM D5185(m) >20 | <1 | 1 | 1 |

FLUID DEGRADATION

| | method | limit/base | current | history1 | history2 |
|------------------|----------|------------|-------------|----------|----------|
| Acid Number (AN) | mg KOH/g | ASTM D974* | 2.52 | 2.45 | 2.35 |



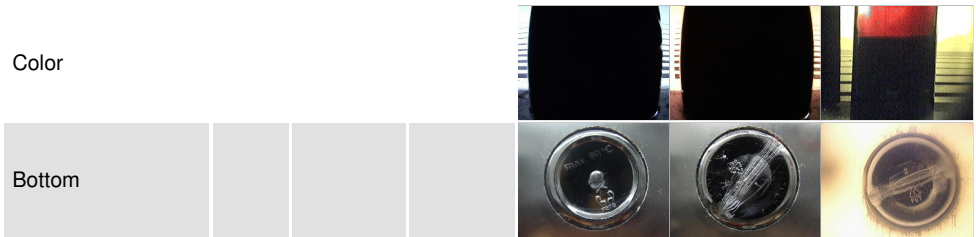
OIL ANALYSIS REPORT



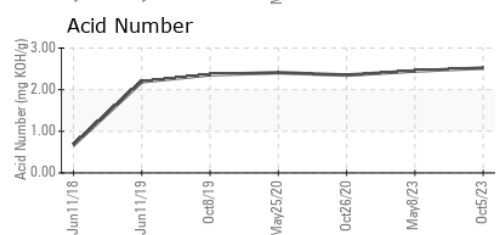
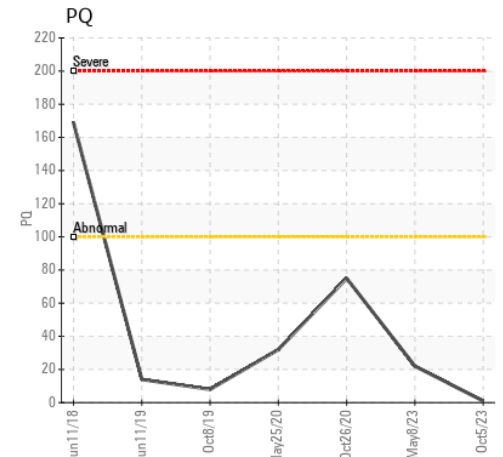
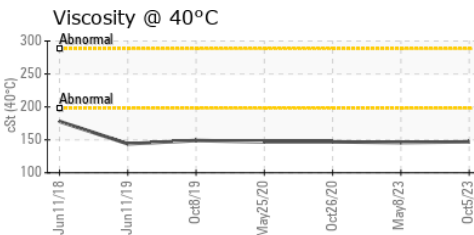
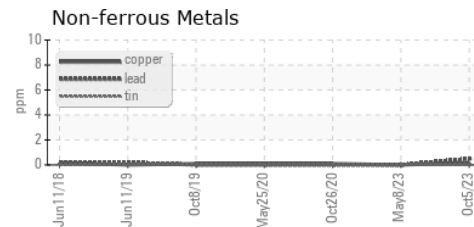
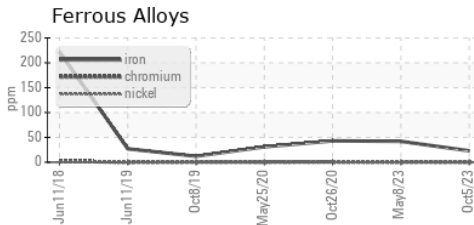
| VISUAL | method | limit/base | current | history1 | history2 |
|------------------|--------|------------|---------|----------|----------|
| White Metal | scalar | Visual* | NONE | NONE | NONE |
| Yellow Metal | scalar | Visual* | NONE | NONE | NONE |
| Precipitate | scalar | Visual* | NONE | NONE | 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* | >0.2 | NEG | NEG |
| Free Water | scalar | Visual* | | NEG | NEG |

| FLUID PROPERTIES | method | limit/base | current | history1 | history2 |
|------------------|--------|---------------|---------|----------|----------|
| Visc @ 40°C | cSt | ASTM D7279(m) | 147 | 146 | 147 |

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



GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
 Sample No. : WC0802588
 Lab Number : 02591859
 Unique Number : 5668938
 Test Package : IND 2 (Additional Tests: TAN Man)

HIRAM WALKER & SONS LTD.
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 F: (519)971-5719

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.