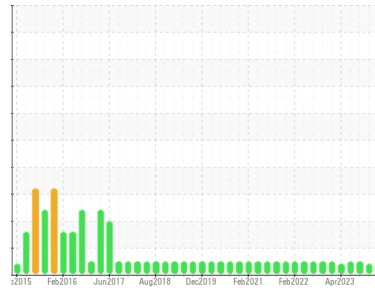




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Area

Coolers Gear Drives [413628273]

Machine Id
3220-190 Cooler #1-2 Unloading Chain - Maximo #2992 #1000045451 (S/N 0221-07741-1419)

Component

Gear Drive

Fluid

KLUBER KLUBEROIL 4 UH1-460 N (--- 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

The water content is negligible. 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 | WC0912756 | WC0892330 | WC0866035 |
| Sample Date | Client Info | 11 Apr 2024 | 26 Jan 2024 | 30 Oct 2023 |
| Machine Age | hrs | 0 | 0 | 0 |
| Oil Age | hrs | 0 | 0 | 0 |
| Oil Changed | Client Info | N/A | N/A | N/A |
| Sample Status | | NORMAL | ABNORMAL | NORMAL |

WEAR METALS

| method | limit/base | current | history1 | history2 | |
|-----------|-------------|--------------------|--------------|----------|----|
| PQ | ASTM D8184* | 0 | 0 | 0 | |
| Iron | ppm | ASTM D5185(m) >150 | 8 | 3 | <1 |
| Chromium | ppm | ASTM D5185(m) >10 | 0 | 0 | 0 |
| Nickel | ppm | ASTM D5185(m) >10 | 0 | <1 | <1 |
| Titanium | ppm | ASTM D5185(m) | 0 | 0 | 0 |
| Silver | ppm | ASTM D5185(m) | 0 | 0 | <1 |
| Aluminum | ppm | ASTM D5185(m) >25 | 0 | <1 | 0 |
| Lead | ppm | ASTM D5185(m) >100 | 0 | 0 | 0 |
| Copper | ppm | ASTM D5185(m) >50 | <1 | <1 | <1 |
| Tin | ppm | ASTM D5185(m) >10 | 0 | 0 | 0 |
| Antimony | ppm | ASTM D5185(m) >5 | 0 | 0 | 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) | <1 | 1 | 2 |
| Barium | ppm | ASTM D5185(m) | 0 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185(m) | 0 | 0 | 0 |
| Manganese | ppm | ASTM D5185(m) | 0 | 0 | 0 |
| Magnesium | ppm | ASTM D5185(m) | 0 | 0 | 0 |
| Calcium | ppm | ASTM D5185(m) | <1 | 2 | <1 |
| Phosphorus | ppm | ASTM D5185(m) | 532 | 629 | 636 |
| Zinc | ppm | ASTM D5185(m) | 3 | 3 | 1 |
| Sulfur | ppm | ASTM D5185(m) | 547 | 602 | 768 |
| Lithium | ppm | ASTM D5185(m) | <1 | <1 | <1 |

CONTAMINANTS

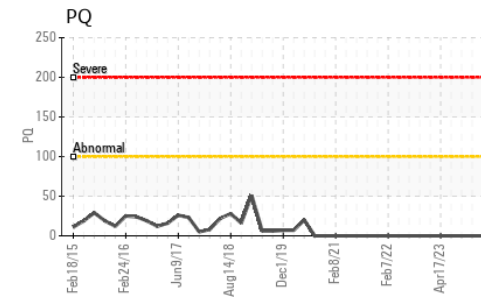
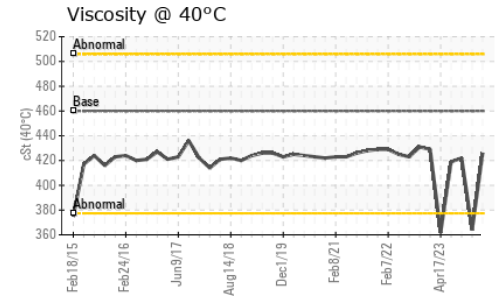
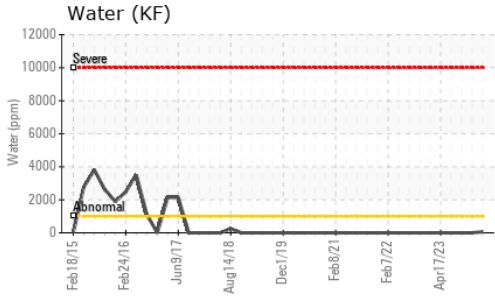
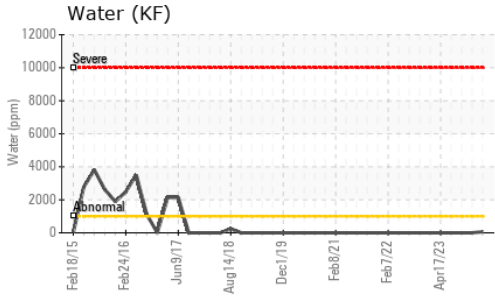
| method | limit/base | current | history1 | history2 | |
|-----------|------------|-------------------|--------------|----------|-----|
| Silicon | ppm | ASTM D5185(m) >50 | 32 | 11 | 33 |
| Sodium | ppm | ASTM D5185(m) | <1 | 0 | <1 |
| Potassium | ppm | ASTM D5185(m) >20 | <1 | <1 | 0 |
| Water | % | ASTM D6304* >0.1 | 0.006 | --- | --- |
| ppm Water | ppm | ASTM D6304* >1000 | 64 | --- | --- |

FLUID DEGRADATION

| method | limit/base | current | history1 | history2 | |
|------------------|------------|------------|-------------|----------|------|
| Acid Number (AN) | mg KOH/g | ASTM D974* | 0.77 | 0.94 | 1.19 |



OIL ANALYSIS REPORT



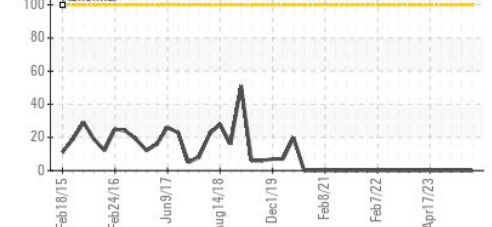
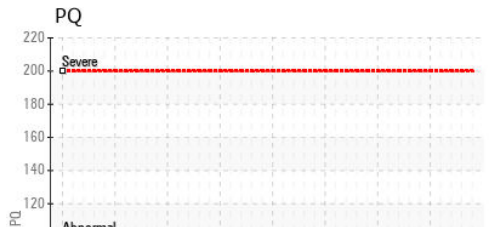
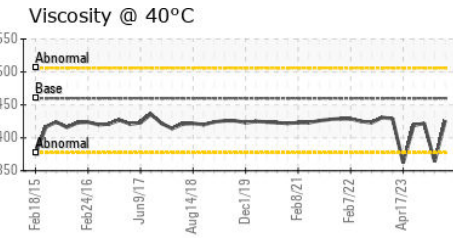
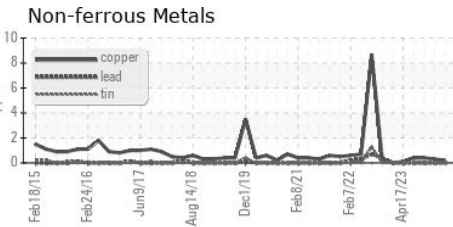
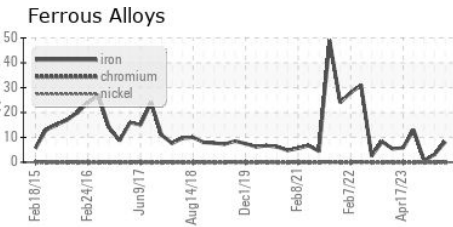
| VISUAL | method | limit/base | current | history1 | history2 | |
|------------------|--------|------------|---------|--------------|----------|-------|
| White Metal | scalar | Visual* | NONE | NONE | NONE | NONE |
| Yellow Metal | scalar | Visual* | NONE | NONE | NONE | NONE |
| Precipitate | scalar | Visual* | NONE | NONE | VLITE | NONE |
| Silt | scalar | Visual* | NONE | NONE | NONE | NONE |
| Debris | scalar | Visual* | NONE | VLITE | NONE | NONE |
| Sand/Dirt | scalar | Visual* | NONE | NONE | NONE | NONE |
| Appearance | scalar | Visual* | NORML | HAZY | 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 |

| FLUID PROPERTIES | method | limit/base | current | history1 | history2 | |
|------------------|--------|---------------|---------|------------|----------|-----|
| Visc @ 40°C | cSt | ASTM D7279(m) | 460 | 426 | ▲ 364 | 422 |

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



GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0912756 **Received** : 19 Apr 2024
Lab Number : **02630400** **Tested** : 24 Apr 2024
Unique Number : 5763532 **Diagnosed** : 24 Apr 2024 - Kevin Marson
Test Package : IND 2 (Additional Tests: KF, TAN Man)

Cargill Meat Solutions
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 Guelph, ON
 CA N1L 1P4
 Contact: Jakub Posluszny
 jakub_posluszny@cargill.com
 T: (519)823-5200
 F: (519)823-5893

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.