



OIL ANALYSIS REPORT

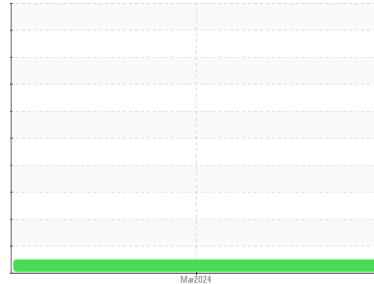
Sample Rating Trend

NORMAL



Machine Id
NO UNIT 02622471

Component
Unknown Component
Fluid
{not provided} (--- GAL)



DIAGNOSIS

Recommendation
Little or no information is provided as to the component and lubricant being tested. Recommendations are therefore generic in nature and may not apply to the current application. Please forward information as to equipment type, reservoir capacity, lubricant type and any pertinent information to allow for a more accurate assessment. Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. Please specify the brand, type, and viscosity of the oil on your next sample.

Wear
All component wear rates are normal.

Contamination
There is no indication of any contamination in the sample.

Fluid Condition
Viscosity of sample indicates oil is within ISO 220 range, advise investigate. The AN level is acceptable for this fluid. The condition of the sample is suitable for further service.

SAMPLE INFORMATION

| | method | limit/base | current | history1 | history2 |
|---------------|-----------------|------------|--------------------|----------|----------|
| Sample Number | Client Info | | WC | --- | --- |
| Sample Date | Client Info | | 14 Mar 2024 | --- | --- |
| Machine Age | hrs Client Info | | 0 | --- | --- |
| Oil Age | hrs Client Info | | 0 | --- | --- |
| Oil Changed | Client Info | | N/A | --- | --- |
| Sample Status | | | NORMAL | --- | --- |

CONTAMINATION

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

WEAR METALS

| | method | limit/base | current | history1 | history2 |
|-----------|-------------------|------------|--------------|----------|----------|
| PQ | ASTM D8184* | | 0 | --- | --- |
| Iron | ppm ASTM D5185(m) | | 9 | --- | --- |
| Chromium | ppm ASTM D5185(m) | | 0 | --- | --- |
| Nickel | ppm ASTM D5185(m) | | 0 | --- | --- |
| Titanium | ppm ASTM D5185(m) | | 0 | --- | --- |
| Silver | ppm ASTM D5185(m) | | 0 | --- | --- |
| Aluminum | ppm ASTM D5185(m) | | 3 | --- | --- |
| Lead | ppm ASTM D5185(m) | | 0 | --- | --- |
| Copper | ppm ASTM D5185(m) | | <1 | --- | --- |
| Tin | ppm ASTM D5185(m) | | 0 | --- | --- |
| Antimony | ppm ASTM D5185(m) | | <1 | --- | --- |
| Vanadium | ppm ASTM D5185(m) | | 0 | --- | --- |
| Beryllium | ppm ASTM D5185(m) | | 0 | --- | --- |
| Cadmium | ppm ASTM D5185(m) | | 0 | --- | --- |

ADDITIVES

| | method | limit/base | current | history1 | history2 |
|------------|-------------------|------------|--------------|----------|----------|
| Boron | ppm ASTM D5185(m) | | 40 | --- | --- |
| Barium | ppm ASTM D5185(m) | | 1 | --- | --- |
| Molybdenum | ppm ASTM D5185(m) | | 0 | --- | --- |
| Manganese | ppm ASTM D5185(m) | | 0 | --- | --- |
| Magnesium | ppm ASTM D5185(m) | | <1 | --- | --- |
| Calcium | ppm ASTM D5185(m) | | 98 | --- | --- |
| Phosphorus | ppm ASTM D5185(m) | | 220 | --- | --- |
| Zinc | ppm ASTM D5185(m) | | 4 | --- | --- |
| Sulfur | ppm ASTM D5185(m) | | 4168 | --- | --- |
| Lithium | ppm ASTM D5185(m) | | <1 | --- | --- |

CONTAMINANTS

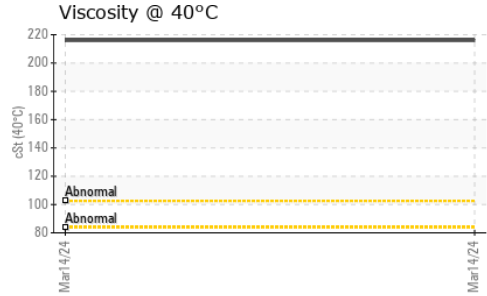
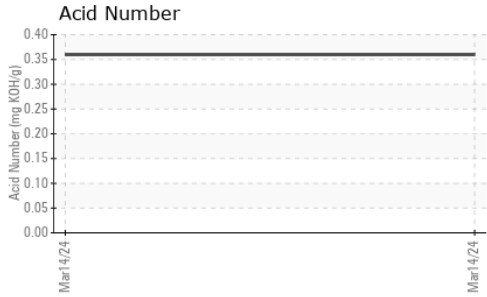
| | method | limit/base | current | history1 | history2 |
|-----------|-------------------|------------|--------------|----------|----------|
| Silicon | ppm ASTM D5185(m) | | 6 | --- | --- |
| Sodium | ppm ASTM D5185(m) | | 2 | --- | --- |
| Potassium | ppm ASTM D5185(m) | >20 | <1 | --- | --- |

FLUID DEGRADATION

| | method | limit/base | current | history1 | history2 |
|------------------|---------------------|------------|-------------|----------|----------|
| Acid Number (AN) | mg KOH/g ASTM D974* | | 0.36 | --- | --- |



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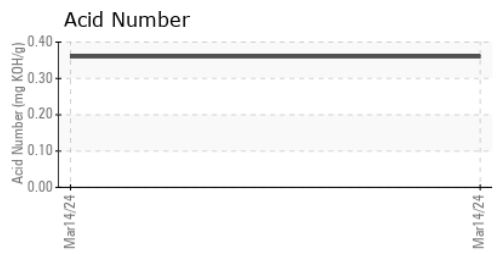
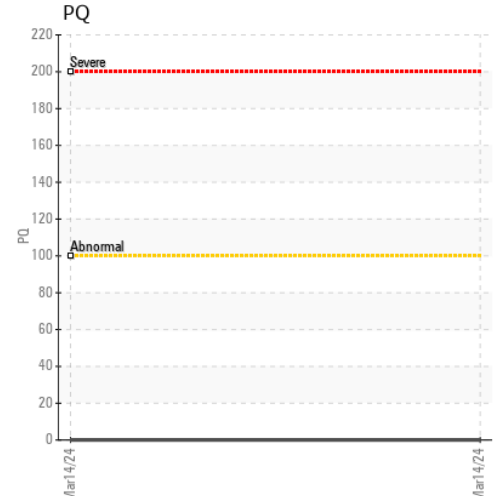
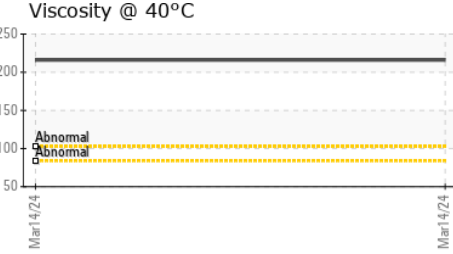
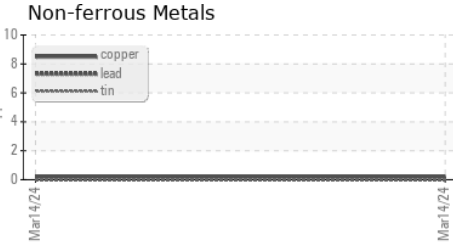
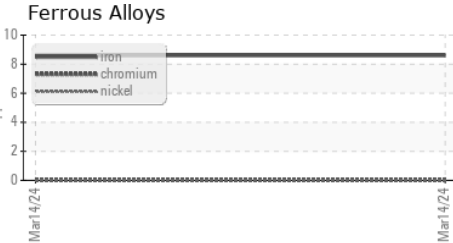
| VISUAL | method | limit/base | current | history1 | history2 | |
|------------------|--------|------------|---------|----------|----------|-----|
| White Metal | scalar | Visual* | NONE | NONE | --- | --- |
| Yellow Metal | scalar | Visual* | NONE | NONE | --- | --- |
| Precipitate | scalar | Visual*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

| FLUID PROPERTIES | method | limit/base | current | history1 | history2 |
|------------------|--------|---------------|---------|----------|----------|
| Visc @ 40°C | cSt | ASTM D7279(m) | 216 | --- | --- |

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

| | | | |
|--------|--|----------|----------|
| Color | | no image | no image |
| Bottom | | no image | no image |

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC **Received** : 15 Mar 2024
Lab Number : **02622471** **Tested** : 15 Mar 2024
Unique Number : 5747590 **Diagnosed** : 17 Mar 2024 - Kevin Marson
Test Package : IND 2 (Additional Tests: TAN Man)

Westrock
 390 Woodlawn Road
 Guelph, ON
 CA N1H 7K3
 Contact: Jerrit Vanderzwan
 jerrit.vanderzwan@westrock.com

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.

T:
F: