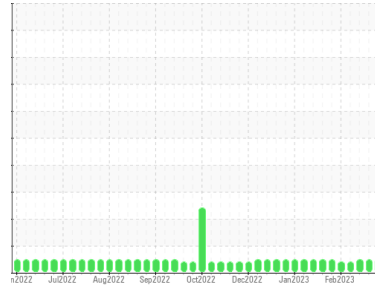




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**

Area

**5**

Machine Id

**5-3-230-D Pump Station for Atox Roller Lube**

Component

**Reservoir Bearing Lube**

Fluid

**MOBIL SHC 639 (1000 LTR)**

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### Contamination

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

### 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 |             | <b>WC0794256</b>   | WC0818139   | WC0794259   |
| Sample Date   | Client Info |             | <b>23 May 2023</b> | 15 May 2023 | 08 May 2023 |
| Machine Age   | hrs         | Client Info | <b>0</b>           | 0           | 0           |
| Oil Age       | hrs         | Client Info | <b>0</b>           | 0           | 0           |
| Oil Changed   | Client Info |             | <b>N/A</b>         | N/A         | N/A         |
| Sample Status |             |             | <b>NORMAL</b>      | NORMAL      | NORMAL      |

## WEAR METALS

|           | method | limit/base    | current | history1     | history2 |
|-----------|--------|---------------|---------|--------------|----------|
| Iron      | ppm    | ASTM D5185(m) | >120    | <b>&lt;1</b> | <1       |
| Chromium  | ppm    | ASTM D5185(m) | >5      | <b>0</b>     | 0        |
| Nickel    | ppm    | ASTM D5185(m) | >20     | <b>&lt;1</b> | <1       |
| Titanium  | ppm    | ASTM D5185(m) |         | <b>0</b>     | 0        |
| Silver    | ppm    | ASTM D5185(m) |         | <b>0</b>     | 0        |
| Aluminum  | ppm    | ASTM D5185(m) | >4      | <b>&lt;1</b> | <1       |
| Lead      | ppm    | ASTM D5185(m) | >30     | <b>0</b>     | 0        |
| Copper    | ppm    | ASTM D5185(m) | >17     | <b>0</b>     | 0        |
| Tin       | ppm    | ASTM D5185(m) | >10     | <b>0</b>     | 0        |
| Antimony  | ppm    | ASTM D5185(m) |         | <b>0</b>     | <1       |
| Vanadium  | ppm    | ASTM D5185(m) |         | <b>0</b>     | 0        |
| Beryllium | ppm    | ASTM D5185(m) |         | <b>0</b>     | 0        |
| Cadmium   | ppm    | ASTM D5185(m) |         | <b>0</b>     | 0        |

## ADDITIVES

|            | method | limit/base    | current | history1     | history2 |
|------------|--------|---------------|---------|--------------|----------|
| Boron      | ppm    | ASTM D5185(m) | 0.2     | <b>&lt;1</b> | <1       |
| Barium     | ppm    | ASTM D5185(m) | 0.0     | <b>0</b>     | 0        |
| Molybdenum | ppm    | ASTM D5185(m) | 0.0     | <b>0</b>     | 0        |
| Manganese  | ppm    | ASTM D5185(m) | 0.0     | <b>0</b>     | 0        |
| Magnesium  | ppm    | ASTM D5185(m) | 0.6     | <b>0</b>     | 0        |
| Calcium    | ppm    | ASTM D5185(m) | 0.0     | <b>0</b>     | 0        |
| Phosphorus | ppm    | ASTM D5185(m) | 691     | <b>421</b>   | 412      |
| Zinc       | ppm    | ASTM D5185(m) | 2.0     | <b>1</b>     | 1        |
| Sulfur     | ppm    | ASTM D5185(m) | 18      | <b>310</b>   | 81       |
| Lithium    | ppm    | ASTM D5185(m) |         | <b>&lt;1</b> | <1       |

## CONTAMINANTS

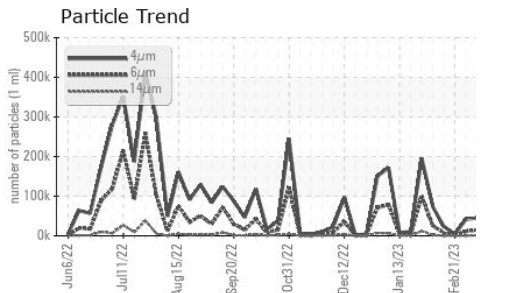
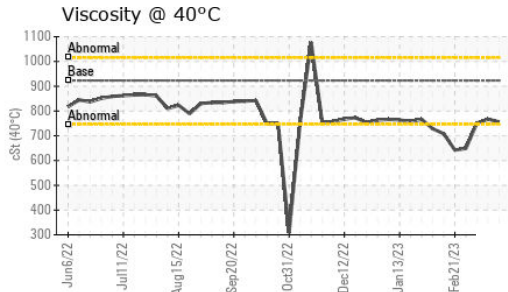
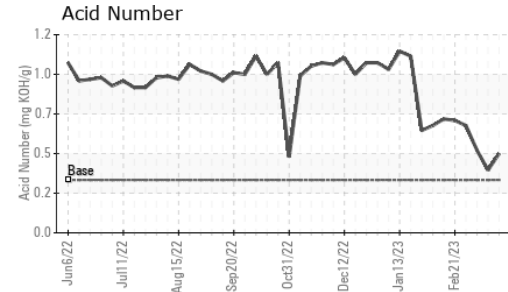
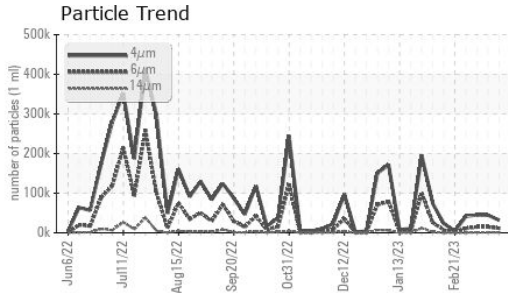
|           | method | limit/base    | current | history1     | history2 |
|-----------|--------|---------------|---------|--------------|----------|
| Silicon   | ppm    | ASTM D5185(m) | >25     | <b>21</b>    | 21       |
| Sodium    | ppm    | ASTM D5185(m) |         | <b>&lt;1</b> | 0        |
| Potassium | ppm    | ASTM D5185(m) | >20     | <b>&lt;1</b> | 0        |

## FLUID CLEANLINESS

|                 | method       | limit/base | current      | history1 | history2 |
|-----------------|--------------|------------|--------------|----------|----------|
| Particles >4µm  | ASTM D7647   |            | <b>31936</b> | 44552    | 45115    |
| Particles >6µm  | ASTM D7647   | >320000    | <b>11472</b> | 14929    | 14819    |
| Particles >14µm | ASTM D7647   | >160000    | <b>1023</b>  | 1235     | 867      |
| Particles >21µm | ASTM D7647   | >40000     | <b>276</b>   | 324      | 191      |
| Particles >38µm | ASTM D7647   | >10000     | <b>8</b>     | 9        | 1        |
| Particles >71µm | ASTM D7647   | >2500      | <b>2</b>     | 0        | 0        |
| Oil Cleanliness | ISO 4406 (c) | >25/24     | <b>21/17</b> | 21/17    | 21/17    |

## FLUID DEGRADATION

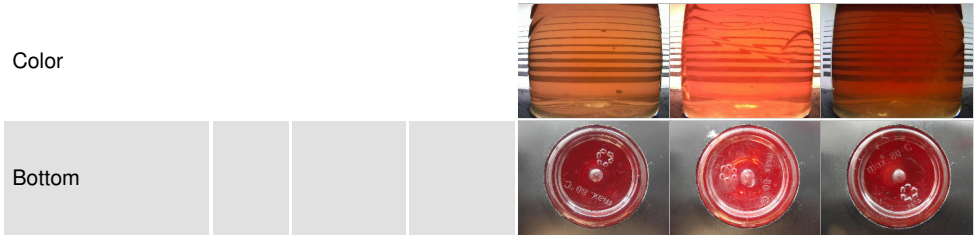
|                  | method   | limit/base | current | history1    | history2 |
|------------------|----------|------------|---------|-------------|----------|
| Acid Number (AN) | mg KOH/g | ASTM D974* | 0.32    | <b>0.48</b> | 0.38     |



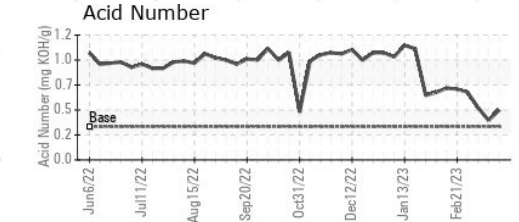
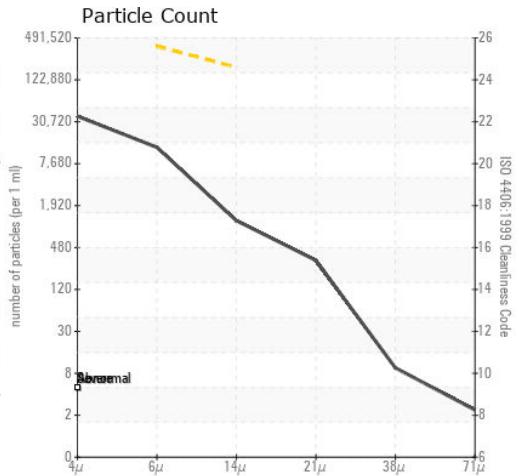
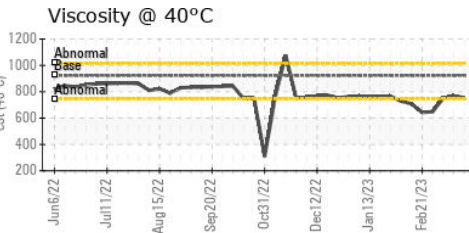
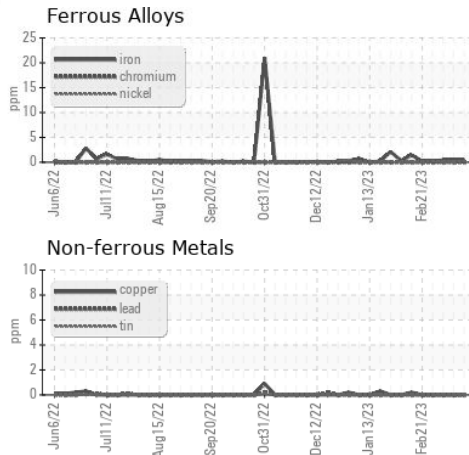
| VISUAL           | method | limit/base | current | history1 | history2 |
|------------------|--------|------------|---------|----------|----------|
| White Metal      | scalar | Visual*    | NONE    | NONE     | NONE     |
| Yellow Metal     | scalar | Visual*    | NONE    | NONE     | NONE     |
| 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) | 923     | 756      | 767      |

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



## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0794256 **Received** : 25 May 2023  
**Lab Number** : 02559634 **Diagnosed** : 26 May 2023  
**Unique Number** : 5580674 **Diagnostician** : Wes Davis  
**Test Package** : IND 2 ( Additional Tests: TAN Man )

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.

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