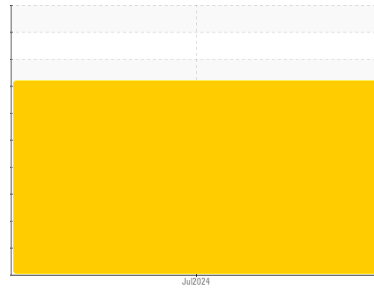




# PROBLEM SUMMARY

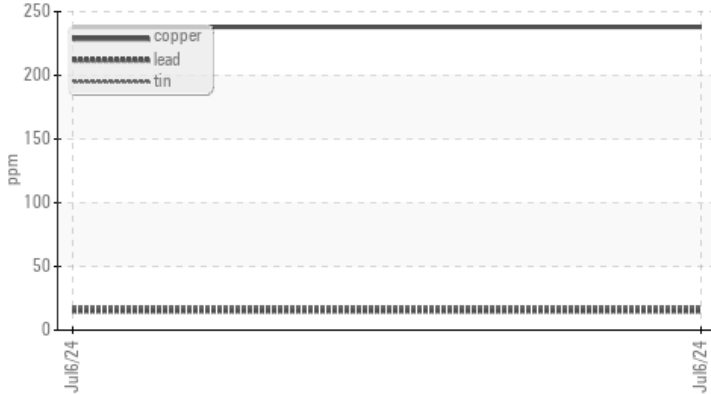
Machine Id  
**K2 P1 NW**  
 Component  
**Bearing**  
 Fluid  
**MOBIL MOBILGEAR SHC 1500 (40 LTR)**

## Sample Rating Trend



## COMPONENT CONDITION SUMMARY

### ▲ Non-ferrous Metals



## RECOMMENDATION

We advise that you check for visible metal particles in the oil. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.

## PROBLEMATIC TEST RESULTS

| Sample Status | ASTM D5185(m) | Visual* | SEVERE  | ---      | ---      |
|---------------|---------------|---------|---------|----------|----------|
| Copper        | ppm           | >20     | ▲ 238   | ---      | ---      |
| Yellow Metal  | scalar        | NONE    | ▲ LIGHT | ---      | ---      |
| PrtFilter     |               |         |         | no image | no image |

Customer Id: CARDUN  
 Sample No.: WC0959791  
 Lab Number: 02647703  
 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:  
 Kevin Marson +1 (289)291-4644 x4644  
[Kevin.Marson@wearcheck.com](mailto:Kevin.Marson@wearcheck.com)

To change component or sample information:  
 Gloria Gonzalez +1 (289)291-4643 x4643  
[gloria.gonzalez@wearcheck.com](mailto:gloria.gonzalez@wearcheck.com)

## RECOMMENDED ACTIONS

| Action                 | Status | Date | Done By | Description   |
|------------------------|--------|------|---------|---|
| Change Fluid           | ---    | ---  | ?       | We recommend that you drain the oil from the component if this has not already been done. |
| Resample               | ---    | ---  | ?       | We recommend an early resample to monitor this condition.                                 |
| Check For Visual Metal | ---    | ---  | ?       | We advise that you check for visible metal particles in the oil.                          |

## HISTORICAL DIAGNOSIS



# OIL ANALYSIS REPORT

Sample Rating Trend



WEAR



Machine Id  
**K2 P1 NW**

Component  
**Bearing**

Fluid  
**MOBIL MOBILGEAR SHC 1500 (40 LTR)**

## DIAGNOSIS

### ▲ Recommendation

We advise that you check for visible metal particles in the oil. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.

### ▲ Wear

Copper ppm levels are severe. Light concentration of visible metal present. Bearing wear is indicated.

### Contamination

There is no indication of any contamination in the oil.

### Fluid Condition

The AN level is acceptable for this fluid. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

## SAMPLE INFORMATION

|               | method      | limit/base  | current            | history1 | history2 |
|---------------|-------------|-------------|--------------------|----------|----------|
| Sample Number | Client Info |             | <b>WC0959791</b>   | ---      | ---      |
| Sample Date   | Client Info |             | <b>06 Jul 2024</b> | ---      | ---      |
| Machine Age   | mths        | Client Info | <b>4</b>           | ---      | ---      |
| Oil Age       | mths        | Client Info | <b>0</b>           | ---      | ---      |
| Oil Changed   | Client Info |             | <b>N/A</b>         | ---      | ---      |
| Sample Status |             |             | <b>SEVERE</b>      | ---      | ---      |

## CONTAMINATION

|       | method    | limit/base | current    | history1 | history2 |
|-------|-----------|------------|------------|----------|----------|
| Water | WC Method | >2         | <b>NEG</b> | ---      | ---      |

## WEAR METALS

|           | method      | limit/base        | current      | history1 | history2 |
|-----------|-------------|-------------------|--------------|----------|----------|
| PQ        | ASTM D8184* |                   | <b>8</b>     | ---      | ---      |
| Iron      | ppm         | ASTM D5185(m) >20 | <b>19</b>    | ---      | ---      |
| Chromium  | ppm         | ASTM D5185(m) >20 | <b>0</b>     | ---      | ---      |
| Nickel    | ppm         | ASTM D5185(m) >20 | <b>2</b>     | ---      | ---      |
| Titanium  | ppm         | ASTM D5185(m)     | <b>1</b>     | ---      | ---      |
| Silver    | ppm         | ASTM D5185(m)     | <b>0</b>     | ---      | ---      |
| Aluminum  | ppm         | ASTM D5185(m) >20 | <b>&lt;1</b> | ---      | ---      |
| Lead      | ppm         | ASTM D5185(m) >20 | <b>15</b>    | ---      | ---      |
| Copper    | ppm         | ASTM D5185(m) >20 | <b>▲ 238</b> | ---      | ---      |
| Tin       | ppm         | ASTM D5185(m) >20 | <b>18</b>    | ---      | ---      |
| Antimony  | ppm         | ASTM D5185(m)     | <b>0</b>     | ---      | ---      |
| Vanadium  | ppm         | ASTM D5185(m)     | <b>0</b>     | ---      | ---      |
| Beryllium | ppm         | ASTM D5185(m)     | <b>0</b>     | ---      | ---      |
| Cadmium   | ppm         | ASTM D5185(m)     | <b>0</b>     | ---      | ---      |

## ADDITIVES

|            | method | limit/base    | current      | history1 | history2 |
|------------|--------|---------------|--------------|----------|----------|
| Boron      | ppm    | ASTM D5185(m) | <b>27</b>    | ---      | ---      |
| Barium     | ppm    | ASTM D5185(m) | <b>0</b>     | ---      | ---      |
| Molybdenum | ppm    | ASTM D5185(m) | <b>0</b>     | ---      | ---      |
| Manganese  | ppm    | ASTM D5185(m) | <b>&lt;1</b> | ---      | ---      |
| Magnesium  | ppm    | ASTM D5185(m) | <b>14</b>    | ---      | ---      |
| Calcium    | ppm    | ASTM D5185(m) | <b>25</b>    | ---      | ---      |
| Phosphorus | ppm    | ASTM D5185(m) | <b>183</b>   | ---      | ---      |
| Zinc       | ppm    | ASTM D5185(m) | <b>13</b>    | ---      | ---      |
| Sulfur     | ppm    | ASTM D5185(m) | <b>3364</b>  | ---      | ---      |
| Lithium    | ppm    | ASTM D5185(m) | <b>&lt;1</b> | ---      | ---      |

## CONTAMINANTS

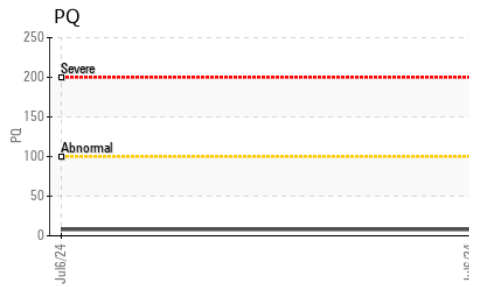
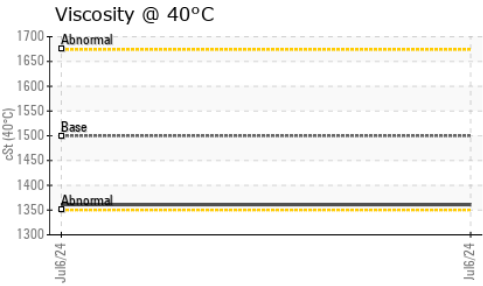
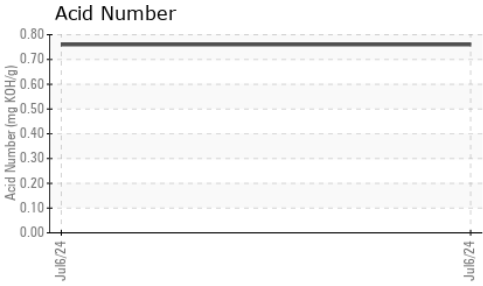
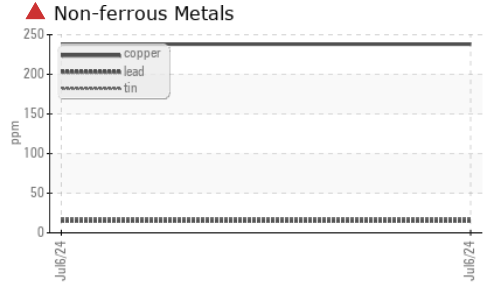
|           | method | limit/base        | current      | history1 | history2 |
|-----------|--------|-------------------|--------------|----------|----------|
| Silicon   | ppm    | ASTM D5185(m) >15 | <b>9</b>     | ---      | ---      |
| Sodium    | ppm    | ASTM D5185(m)     | <b>&lt;1</b> | ---      | ---      |
| Potassium | ppm    | ASTM D5185(m) >20 | <b>0</b>     | ---      | ---      |

## FLUID DEGRADATION

|                  | method   | limit/base | current     | history1 | history2 |
|------------------|----------|------------|-------------|----------|----------|
| Acid Number (AN) | mg KOH/g | ASTM D974* | <b>0.76</b> | ---      | ---      |



# OIL ANALYSIS REPORT



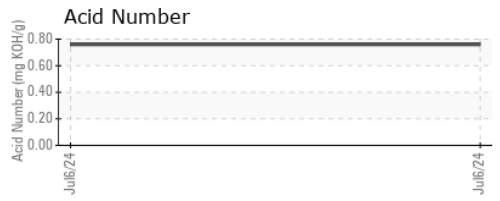
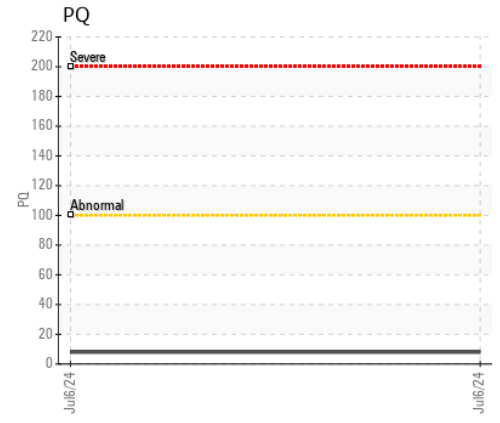
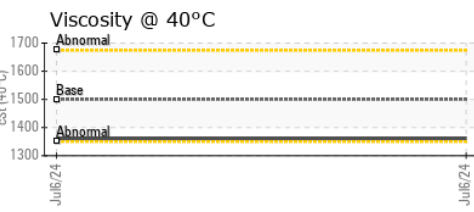
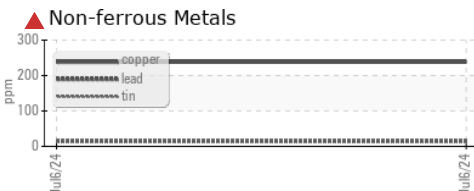
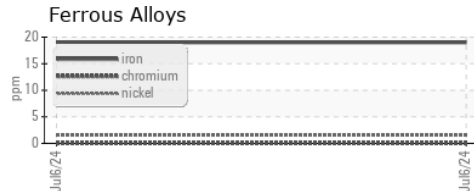
| VISUAL           | method | limit/base | current | history1 | history2 |
|------------------|--------|------------|---------|----------|----------|
| White Metal      | scalar | Visual*    | NONE    | NONE     | ---      |
| Yellow Metal     | scalar | Visual*    | NONE    | ▲ LIGHT  | ---      |
| Precipitate      | scalar | Visual*    | NONE    | NONE     | ---      |
| Silt             | scalar | Visual*    | NONE    | VLITE    | ---      |
| Debris           | scalar | Visual*    | NONE    | LIGHT    | ---      |
| Sand/Dirt        | scalar | Visual*    | NONE    | NONE     | ---      |
| Appearance       | scalar | Visual*    | NORML   | NORML    | ---      |
| Odor             | scalar | Visual*    | NORML   | NORML    | ---      |
| Emulsified Water | scalar | Visual*    | >2      | NEG      | ---      |
| Free Water       | scalar | Visual*    |         | NEG      | ---      |

| FLUID PROPERTIES | method | limit/base    | current | history1 | history2 |
|------------------|--------|---------------|---------|----------|----------|
| Visc @ 40°C      | cSt    | ASTM D7279(m) | 1500    | 1361     | ---      |

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

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

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **Carmeuse Lime (Canada) Ltd Dundas Operations**  
**Sample No.** : WC0959791 **Received** : 12 Jul 2024 **R.R. #2, 600 5 Hwy W**  
**Lab Number** : 02647703 **Tested** : 16 Jul 2024 **Dundas, ON**  
**Unique Number** : 5813255 **Diagnosed** : 16 Jul 2024 - Kevin Marson **CA L9H 5E2**  
**Test Package** : IND 2 ( Additional Tests: Bottom, BottomAnalysis, FILTERPATCH, TAN Man ) **Contact: Harsh Murria**  
harsh.murria@carmeuse.com

To discuss this sample report, contact Customer Service at 1-800-268-2131. T: (905)628-7651  
 Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab. F:  
 Validity of results and interpretation are based on the sample and information as supplied.