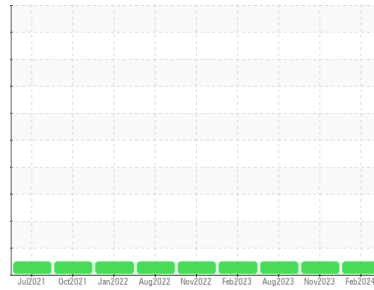




# OIL ANALYSIS REPORT

## Sample Rating Trend



**NORMAL**



Area

**Propulsion/Steering**

Machine Id

**Azimuth Thruster #3 (S/N C-13234)**

Component

**3 Gearbox**

Fluid

**MOBIL MOBILGEAR 600 XP ISO100 (850 LTR)**

### DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor. Please contact your representative for information regarding the proper sampling kits for your service. NOTE: We recommend using MAR 2 test kits, this testkit includes AN to determine the suitability of the oil for continued use.

#### Wear

All component wear rates are normal.

#### Contamination

There is no indication of any contamination in the oil.

#### Fluid Condition

The condition of the oil is acceptable for the time in service (unconfirmed).

### SAMPLE INFORMATION

| method        | limit/base  | current            | history1     | history2    |       |
|---------------|-------------|--------------------|--------------|-------------|-------|
| Sample Number | Client Info | <b>WC0850504</b>   | WC0850507    | WC0754037   |       |
| Sample Date   | Client Info | <b>19 Feb 2024</b> | 20 Nov 2023  | 12 Aug 2023 |       |
| Machine Age   | hrs         | Client Info        | <b>15522</b> | 15255       | 14722 |
| Oil Age       | hrs         | Client Info        | <b>0</b>     | 15255       | 14722 |
| Oil Changed   | Client Info | <b>Not Changed</b> | Not Changed  | Not Changed |       |
| Sample Status |             | <b>NORMAL</b>      | NORMAL       | NORMAL      |       |

### CONTAMINATION

| method | limit/base | current        | history1   | history2 |     |
|--------|------------|----------------|------------|----------|-----|
| Water  | WC Method  | <b>&gt;0.2</b> | <b>NEG</b> | NEG      | NEG |

### WEAR METALS

| method    | limit/base | current       | history1 | history2     |    |    |
|-----------|------------|---------------|----------|--------------|----|----|
| Iron      | ppm        | ASTM D5185(m) | >200     | <b>13</b>    | 12 | 10 |
| Chromium  | ppm        | ASTM D5185(m) | >10      | <b>0</b>     | 0  | 0  |
| Nickel    | ppm        | ASTM D5185(m) | >10      | <b>0</b>     | <1 | 0  |
| Titanium  | ppm        | ASTM D5185(m) |          | <b>0</b>     | 0  | 0  |
| Silver    | ppm        | ASTM D5185(m) |          | <b>0</b>     | <1 | 0  |
| Aluminum  | ppm        | ASTM D5185(m) | >25      | <b>&lt;1</b> | <1 | 0  |
| Lead      | ppm        | ASTM D5185(m) | >50      | <b>3</b>     | 4  | 4  |
| Copper    | ppm        | ASTM D5185(m) | >200     | <b>33</b>    | 31 | 27 |
| Tin       | ppm        | ASTM D5185(m) | >10      | <b>2</b>     | 2  | 2  |
| Antimony  | ppm        | ASTM D5185(m) | >5       | <b>0</b>     | 0  | 0  |
| Vanadium  | ppm        | ASTM D5185(m) |          | <b>0</b>     | 0  | 0  |
| Beryllium | ppm        | ASTM D5185(m) |          | <b>0</b>     | 0  | 0  |
| Cadmium   | ppm        | ASTM D5185(m) |          | <b>0</b>     | 0  | 0  |

### ADDITIVES

| method     | limit/base | current       | history1 | history2     |      |      |
|------------|------------|---------------|----------|--------------|------|------|
| Boron      | ppm        | ASTM D5185(m) |          | <b>1</b>     | 6    | 4    |
| Barium     | ppm        | ASTM D5185(m) |          | <b>0</b>     | <1   | 0    |
| Molybdenum | ppm        | ASTM D5185(m) |          | <b>0</b>     | 0    | 0    |
| Manganese  | ppm        | ASTM D5185(m) |          | <b>0</b>     | 0    | 0    |
| Magnesium  | ppm        | ASTM D5185(m) |          | <b>2</b>     | 2    | 1    |
| Calcium    | ppm        | ASTM D5185(m) |          | <b>4</b>     | 4    | 4    |
| Phosphorus | ppm        | ASTM D5185(m) |          | <b>297</b>   | 303  | 326  |
| Zinc       | ppm        | ASTM D5185(m) |          | <b>16</b>    | 13   | 12   |
| Sulfur     | ppm        | ASTM D5185(m) |          | <b>9440</b>  | 9578 | 9965 |
| Lithium    | ppm        | ASTM D5185(m) |          | <b>&lt;1</b> | <1   | <1   |

### CONTAMINANTS

| method    | limit/base | current       | history1 | history2     |   |    |
|-----------|------------|---------------|----------|--------------|---|----|
| Silicon   | ppm        | ASTM D5185(m) | >50      | <b>0</b>     | 1 | 1  |
| Sodium    | ppm        | ASTM D5185(m) |          | <b>3</b>     | 3 | 2  |
| Potassium | ppm        | ASTM D5185(m) | >20      | <b>&lt;1</b> | 0 | <1 |

