## **OIL ANALYSIS REPORT**



## M61139 - STARBOARD DIESEL ENGINE

Sample No: VPA050891

Oil Type: DIESEL ENGINE OIL SAE 40

| Sample Number    |          | VPA050891    | <br> |  |
|------------------|----------|--------------|------|--|
| Sample Date      |          | 01 May 2024  | <br> |  |
| Machine Hours    |          | 0            | <br> |  |
| Oil Hours        |          | 0            | <br> |  |
| Oil Changed      |          | Not Changd   | <br> |  |
| Sample Status    |          | NORMAL       | <br> |  |
| OIL CONDITION    |          |              |      |  |
| Visc @ 100°C     | cSt      | 13.7         | <br> |  |
| Base Number (BN) | mg KOH/g | 9.5          | <br> |  |
| Oxidation (PA)   | %        | 67           | <br> |  |
| CONTAMINATION    |          |              |      |  |
| Water            | %        | NEG          | <br> |  |
| Soot %           | %        | 0.3          | <br> |  |
| Nitration (PA)   | %        | 62           | <br> |  |
| Sulfation (PA)   | %        | 55           | <br> |  |
| Glycol           | %        | NEG          | <br> |  |
| Fuel             | %        | <1.0         | <br> |  |
| Silicon          | ppm      | <b>4</b>     | <br> |  |
| Sodium           | ppm      | 2            | <br> |  |
| Potassium        | ppm      | <b>  </b> <1 | <br> |  |
| WEAR METALS      |          |              |      |  |
| Iron             | ppm      | <b>9</b>     | <br> |  |
| Copper           | ppm      | 25           | <br> |  |
| Lead             | ppm      | 0            | <br> |  |
| Tin              | ppm      | <b>□</b> <1  | <br> |  |
| Aluminum         | ppm      | 2            | <br> |  |
| Chromium         | ppm      | 0            | <br> |  |
| Molybdenum       | ppm      | <b>4</b> 3   | <br> |  |
| Nickel           | ppm      | 0            | <br> |  |
| Titanium         | ppm      | 0            | <br> |  |
| Silver           | ppm      | 0            | <br> |  |
| Manganese        | ppm      | <b>□</b> <1  | <br> |  |
| Vanadium         | ppm      | 0            | <br> |  |
| ADDITIVES        |          |              |      |  |
| Calcium          | ppm      | <b>1514</b>  | <br> |  |
| Magnesium        | ppm      | 509          | <br> |  |
| Zinc             | ppm      | 1184         | <br> |  |
| Phosphorus       | ppm      | 990          | <br> |  |
| Barium           | ppm      | 0            | <br> |  |
| Boron            | ppm      | <b>40</b>    | <br> |  |

#### Monmouth Marine Engines Inc 536 UNION LN BRIELLE, NJ US 08730-1421 Contact: Kenneth Mika monmouthmarine@gmail.com T: x: F: x:

### Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

 Depot:
 VP153457

 Unique No:
 11007246

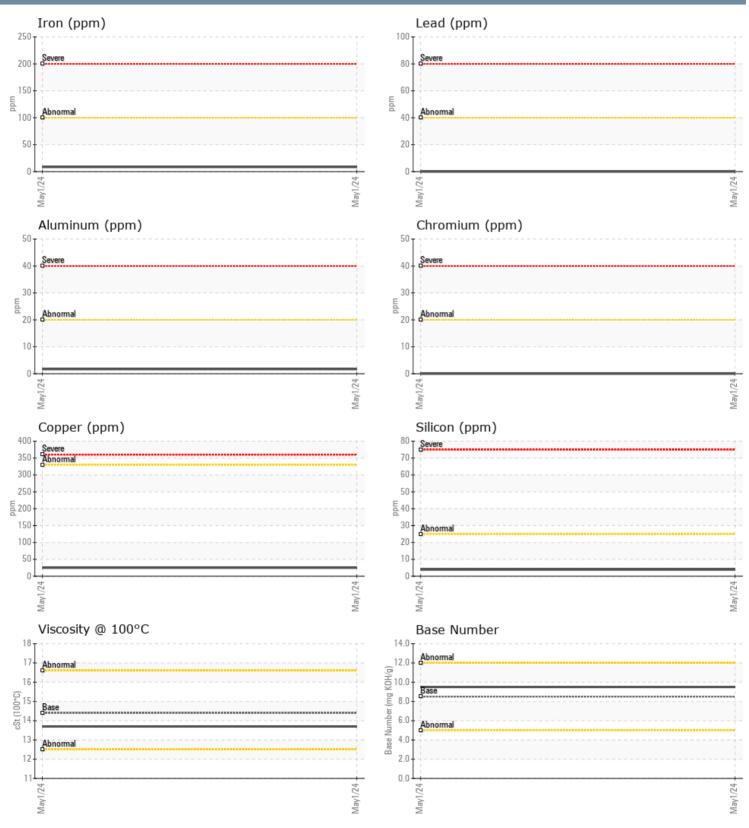
 Signed:
 Doug Bogart

 Report Date:
 03 May 2024

# **OIL ANALYSIS REPORT**



#### GRAPHS



Report Id: VP153457 [WUSCAR] 06166527 (Generated: 05/03/2024 15:10:39) Rev: 1

Contact/Location: Kenneth Mika - VP153457