

A383615 - STARBOARD DIESEL ENGINE

Sample No: VPA038871

Oil Type: DIESEL ENGINE OIL SAE 40

SAMPLE INFORMATION

| | | | | |
|---------------|-------------|-----|-----|-----|
| Sample Number | VPA038871 | --- | --- | --- |
| Sample Date | 08 Jun 2021 | --- | --- | --- |
| Machine Hours | 0 | --- | --- | --- |
| Oil Hours | 0 | --- | --- | --- |
| Oil Changed | N/A | --- | --- | --- |
| Sample Status | NORMAL | --- | --- | --- |

Monmouth Marine Engines Inc

536 UNION LN

BRIELLE, NJ

US 08730-1421

Contact: Kenneth Mika

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T: x:

F: x:

OIL CONDITION

| | | | | | |
|----------------|-----|--------|-----|-----|-----|
| Visc @ 100°C | cSt | █ 14.4 | --- | --- | --- |
| Oxidation (PA) | % | 68 | --- | --- | --- |

CONTAMINATION

| | | | | | |
|----------------|-----|-------|-----|-----|-----|
| Water | % | NEG | --- | --- | --- |
| Soot % | % | █ 0.1 | --- | --- | --- |
| Nitration (PA) | % | 47 | --- | --- | --- |
| Sulfation (PA) | % | 59 | --- | --- | --- |
| Glycol | % | NEG | --- | --- | --- |
| Fuel | % | <1.0 | --- | --- | --- |
| Silicon | ppm | █ 4 | --- | --- | --- |
| Sodium | ppm | █ 2 | --- | --- | --- |
| Potassium | ppm | █ 7 | --- | --- | --- |

Diagnosis

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 condition of the oil is acceptable for the time in service.

WEAR METALS

| | | | | | |
|------------|-----|------|-----|-----|-----|
| Iron | ppm | █ 5 | --- | --- | --- |
| Copper | ppm | █ <1 | --- | --- | --- |
| Lead | ppm | █ <1 | --- | --- | --- |
| Tin | ppm | █ <1 | --- | --- | --- |
| Aluminum | ppm | █ 1 | --- | --- | --- |
| Chromium | ppm | █ <1 | --- | --- | --- |
| Molybdenum | ppm | █ 10 | --- | --- | --- |
| Nickel | ppm | █ <1 | --- | --- | --- |
| Titanium | ppm | █ <1 | --- | --- | --- |
| Silver | ppm | █ <1 | --- | --- | --- |
| Manganese | ppm | █ <1 | --- | --- | --- |
| Vanadium | ppm | <1 | --- | --- | --- |

ADDITIVES

| | | | | | |
|------------|-----|--------|-----|-----|-----|
| Calcium | ppm | █ 1989 | --- | --- | --- |
| Magnesium | ppm | █ 166 | --- | --- | --- |
| Zinc | ppm | █ 1238 | --- | --- | --- |
| Phosphorus | ppm | █ 1003 | --- | --- | --- |
| Barium | ppm | █ 0 | --- | --- | --- |
| Boron | ppm | █ 205 | --- | --- | --- |

Depot: VP153457

Unique No: 9538469

Signed: Don Baldrige

Report Date: 10 Jun 2021

GRAPHS

