

# OIL ANALYSIS REPORT

**VOLVO  
PENTA**

## SUNSET BOUND ZF 20243378 - INBOARD - PORT GEARBOX

**Sample No:** VPA049917  
**Oil Type:** DIESEL ENGINE OIL SAE 30

### SAMPLE INFORMATION

|               |             |     |     |     |
|---------------|-------------|-----|-----|-----|
| Sample Number | VPA049917   | --- | --- | --- |
| Sample Date   | 20 Dec 2023 | --- | --- | --- |
| Machine Hours | 705         | --- | --- | --- |
| Oil Hours     | 0           | --- | --- | --- |
| Oil Changed   | Not Changd  | --- | --- | --- |
| Sample Status | NORMAL      | --- | --- | --- |

**Marine International Diesels Inc.**  
3600 HACIENDA BLVD UNIT G  
DAVIE, FL  
US 33314  
Contact: JEF BURKE  
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T:  
F:

### OIL CONDITION

|             |     |        |     |     |     |
|-------------|-----|--------|-----|-----|-----|
| Visc @ 40°C | cSt | ■ 90.8 | --- | --- | --- |
|-------------|-----|--------|-----|-----|-----|

### CONTAMINATION

|           |     |       |     |     |     |
|-----------|-----|-------|-----|-----|-----|
| Water     | %   | ■ NEG | --- | --- | --- |
| Silicon   | ppm | ■ 5   | --- | --- | --- |
| Sodium    | ppm | ■ 2   | --- | --- | --- |
| Potassium | ppm | ■ 0   | --- | --- | --- |

### 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

|            |     |      |     |     |     |
|------------|-----|------|-----|-----|-----|
| PQ         |     | ■ 22 | --- | --- | --- |
| Iron       | ppm | ■ 18 | --- | --- | --- |
| Copper     | ppm | ■ 31 | --- | --- | --- |
| Lead       | ppm | ■ 0  | --- | --- | --- |
| Tin        | ppm | ■ <1 | --- | --- | --- |
| Aluminum   | ppm | ■ 3  | --- | --- | --- |
| Chromium   | ppm | ■ 0  | --- | --- | --- |
| Molybdenum | ppm | ■ 85 | --- | --- | --- |
| Nickel     | ppm | ■ 0  | --- | --- | --- |
| Titanium   | ppm | ■ 0  | --- | --- | --- |
| Silver     | ppm | ■ 0  | --- | --- | --- |
| Manganese  | ppm | ■ <1 | --- | --- | --- |
| Vanadium   | ppm | ■ 0  | --- | --- | --- |

### ADDITIVES

|            |     |        |     |     |     |
|------------|-----|--------|-----|-----|-----|
| Calcium    | ppm | ■ 2766 | --- | --- | --- |
| Magnesium  | ppm | ■ 61   | --- | --- | --- |
| Zinc       | ppm | ■ 1102 | --- | --- | --- |
| Phosphorus | ppm | ■ 980  | --- | --- | --- |
| Barium     | ppm | ■ 0    | --- | --- | --- |
| Boron      | ppm | ■ 22   | --- | --- | --- |

**Depot:** VP694356  
**Unique No:** 10806983  
**Signed:** Angela Borella  
**Report Date:** 28 Dec 2023

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## GRAPHS

