

# OIL ANALYSIS REPORT

# VOLVO PENTA

## FREE TRADE 255 VOLVO PENTA 3950006122 - STARBOARD IPS

**Sample No:** VPA062993  
**Oil Type:** GEAR OIL SAE 75W90

### SAMPLE INFORMATION

|               |             |             |     |     |
|---------------|-------------|-------------|-----|-----|
| Sample Number | VPA062993   | VPA041425   | --- | --- |
| Sample Date   | 28 May 2024 | 15 Jun 2023 | --- | --- |
| Machine Hours | 0           | 526         | --- | --- |
| Oil Hours     | 0           | 0           | --- | --- |
| Oil Changed   | N/A         | Not Changd  | --- | --- |
| Sample Status | NORMAL      | NORMAL      | --- | --- |

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

### OIL CONDITION

|             |     |       |       |     |     |
|-------------|-----|-------|-------|-----|-----|
| Visc @ 40°C | cSt | █ 100 | █ 104 | --- | --- |
|-------------|-----|-------|-------|-----|-----|

### CONTAMINATION

|           |     |      |      |     |     |
|-----------|-----|------|------|-----|-----|
| Water     | %   | NEG  | NEG  | --- | --- |
| Silicon   | ppm | █ <1 | 2    | --- | --- |
| Sodium    | ppm | █ 1  | █ 7  | --- | --- |
| Potassium | ppm | █ <1 | █ <1 | --- | --- |

### 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         |     | █ 14 | █ 10 | --- | --- |
| Iron       | ppm | █ 23 | █ 23 | --- | --- |
| Copper     | ppm | █ 2  | 2    | --- | --- |
| Lead       | ppm | █ 0  | 0    | --- | --- |
| Tin        | ppm | █ 0  | 0    | --- | --- |
| Aluminum   | ppm | █ 0  | <1   | --- | --- |
| Chromium   | ppm | █ 0  | █ 0  | --- | --- |
| Molybdenum | ppm | █ 0  | 0    | --- | --- |
| Nickel     | ppm | █ 0  | █ 0  | --- | --- |
| Titanium   | ppm | █ 0  | 0    | --- | --- |
| Silver     | ppm | 0    | 0    | --- | --- |
| Manganese  | ppm | █ <1 | <1   | --- | --- |
| Vanadium   | ppm | 0    | 0    | --- | --- |

### ADDITIVES

|            |     |        |      |     |     |
|------------|-----|--------|------|-----|-----|
| Calcium    | ppm | █ 5    | 10   | --- | --- |
| Magnesium  | ppm | █ 2    | 12   | --- | --- |
| Zinc       | ppm | █ 3    | 0    | --- | --- |
| Phosphorus | ppm | █ 1341 | 1369 | --- | --- |
| Barium     | ppm | █ 0    | 0    | --- | --- |
| Boron      | ppm | █ 294  | 346  | --- | --- |

**Depot:** VP694356  
**Unique No:** 11099761  
**Signed:** Angela Borella  
**Report Date:** 28 Jun 2024

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PENTA**

## GRAPHS

