

# OIL ANALYSIS REPORT

**VOLVO  
PENTA**

## ANDIANO MIDI ZF I32520311848 - INBOARD - PORT GEARBOX

Sample No: VPA058037

Oil Type: NOT GIVEN

### SAMPLE INFORMATION

Sample Number	VPA058037	---	---	---
Sample Date	20 Dec 2023	---	---	---
Machine Hours	13	---	---	---
Oil Hours	0	---	---	---
Oil Changed	N/A	---	---	---
Sample Status	ABNORMAL	---	---	---

### OIL CONDITION

Visc @ 40°C	cSt	■ 89.2	---	---	---
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### CONTAMINATION

Water	%	NEG	---	---	---
Silicon	ppm	▲ 73	---	---	---
Sodium	ppm	■ <1	---	---	---
Potassium	ppm	■ <1	---	---	---

### WEAR METALS

PQ		■ 24	---	---	---
Iron	ppm	■ 10	---	---	---
Copper	ppm	■ 111	---	---	---
Lead	ppm	■ 3	---	---	---
Tin	ppm	■ 1	---	---	---
Aluminum	ppm	■ 1	---	---	---
Chromium	ppm	■ 0	---	---	---
Molybdenum	ppm	0	---	---	---
Nickel	ppm	■ 0	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	<1	---	---	---
Vanadium	ppm	0	---	---	---

### ADDITIVES

Calcium	ppm	3079	---	---	---
Magnesium	ppm	9	---	---	---
Zinc	ppm	875	---	---	---
Phosphorus	ppm	771	---	---	---
Barium	ppm	<1	---	---	---
Boron	ppm	20	---	---	---

**Marine International Diesels Inc.**  
3600 HACIENDA BLVD UNIT G  
DAVIE, FL  
US 33314  
Contact: JEF BURKE  
midijef@gmail.com;canastasio@wearcheckusa.com  
T:  
F:

### Diagnosis

We advise that you check all areas where dirt can enter the system. Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample. All component wear rates are normal. Elemental level of silicon (Si) above normal. The condition of the oil is acceptable for the time in service.

**Depot:** VP694356  
**Unique No:** 10806985  
**Signed:** Angela Borella  
**Report Date:** 28 Dec 2023

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## GRAPHS

