

# OIL ANALYSIS REPORT

# VOLVO PENTA

## HARTZELL 520-286 JAY VOLVO PENTA A1187998 - STARBOARD DIESEL ENGINE

**Sample No:** VPA057256  
**Oil Type:** DIESEL ENGINE OIL SAE 40

### SAMPLE INFORMATION

Sample Number	VPA057256	---	---	---
Sample Date	08 Dec 2023	---	---	---
Machine Hours	68	---	---	---
Oil Hours	0	---	---	---
Oil Changed	N/A	---	---	---
Sample Status	NORMAL	---	---	---

**Outstanding Marine**  
PO Box 274  
GALENA, MD  
US 21635  
Contact: Ronda Bolinger  
rlwb@verizon.net  
T:  
F:

### OIL CONDITION

Visc @ 100°C	cSt	█ 14.1	---	---	---
Base Number (BN)	mg KOH/g	█ 9.3	---	---	---
Oxidation (PA)	%	55	---	---	---

### CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	█ 0.3	---	---	---
Nitration (PA)	%	43	---	---	---
Sulfation (PA)	%	50	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	█ 18	---	---	---
Sodium	ppm	█ 2	---	---	---
Potassium	ppm	█ <1	---	---	---

### Diagnosis

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample. Metal levels are typical for a new component breaking in. 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 suitable for further service.

### WEAR METALS

Iron	ppm	█ 19	---	---	---
Copper	ppm	█ 15	---	---	---
Lead	ppm	█ 2	---	---	---
Tin	ppm	█ 2	---	---	---
Aluminum	ppm	█ 15	---	---	---
Chromium	ppm	█ 2	---	---	---
Molybdenum	ppm	█ 62	---	---	---
Nickel	ppm	█ 2	---	---	---
Titanium	ppm	█ <1	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ 1	---	---	---
Vanadium	ppm	<1	---	---	---

### ADDITIVES

Calcium	ppm	█ 1170	---	---	---
Magnesium	ppm	█ 782	---	---	---
Zinc	ppm	█ 1140	---	---	---
Phosphorus	ppm	█ 966	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 22	---	---	---

**Depot:** VP153685  
**Unique No:** 10816301  
**Signed:** Sean Felton  
**Report Date:** 04 Jan 2024

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## GRAPHS

