

# OIL ANALYSIS REPORT

# VOLVO PENTA

## HIGH POINT II/3491 VOLVO PENTA 40869501 - PORT DIESEL ENGINE

**Sample No:** VPA036997  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3

### SAMPLE INFORMATION

Sample Number	VPA036997	---	---	---
Sample Date	08 Nov 2023	---	---	---
Machine Hours	300	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ATTENTION	---	---	---

### GRAND BANKS

450 SW SALEM RD  
STUART, FL  
US 34994  
Contact: ROBERT ANTONA  
roberta@gbmarinegroup.com  
T: (609)384-5290  
F:

### OIL CONDITION

Visc @ 100°C	cSt	▲ 11.9	---	---	---
Base Number (BN)	mg KOH/g	■ 8.7	---	---	---
Oxidation (PA)	%	58	---	---	---

### CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	■ 0.8	---	---	---
Nitration (PA)	%	66	---	---	---
Sulfation (PA)	%	57	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	▲ 2.5	---	---	---
Silicon	ppm	■ 15	---	---	---
Sodium	ppm	■ 2	---	---	---
Potassium	ppm	■ <1	---	---	---

### WEAR METALS

Iron	ppm	■ 23	---	---	---
Copper	ppm	■ 81	---	---	---
Lead	ppm	■ 2	---	---	---
Tin	ppm	■ 2	---	---	---
Aluminum	ppm	■ 2	---	---	---
Chromium	ppm	■ <1	---	---	---
Molybdenum	ppm	■ 56	---	---	---
Nickel	ppm	■ 1	---	---	---
Titanium	ppm	■ 0	---	---	---
Silver	ppm	■ <1	---	---	---
Manganese	ppm	■ <1	---	---	---
Vanadium	ppm	0	---	---	---

### ADDITIVES

Calcium	ppm	■ 1155	---	---	---
Magnesium	ppm	■ 810	---	---	---
Zinc	ppm	■ 1160	---	---	---
Phosphorus	ppm	■ 962	---	---	---
Barium	ppm	■ 0	---	---	---
Boron	ppm	■ 9	---	---	---

### Diagnosis

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. Light fuel dilution occurring. Fuel is present in the oil and is lowering the viscosity. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

**Depot:** VP531377  
**Unique No:** 10743030  
**Signed:** Sean Felton  
**Report Date:** 20 Nov 2023

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## GRAPHS

