

OIL ANALYSIS REPORT

VOLVO PENTA

VOLVO PENTA 2006007762 - PORT DIESEL ENGINE

Sample No: VPA044317

Oil Type: VOLVO VDS-4.5 Premium Motor Oil 15W40

SAMPLE INFORMATION

Sample Number	VPA044317	---	---	---
Sample Date	13 Oct 2023	---	---	---
Machine Hours	2679	---	---	---
Oil Hours	101	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ABNORMAL	---	---	---

BANANABELT BOATS

2919 V AVE
ANACORTES, WA
US 98221
Contact: RUDY
rudy@bananabeltboats.com
T: (360)588-9208
F:

OIL CONDITION

Visc @ 100°C	cSt	█ 13.4	---	---	---
Base Number (BN)	mg KOH/g	█ 8.9	---	---	---
Oxidation (PA)	%	55	---	---	---

CONTAMINATION

Soot %	%	█ 0.3	---	---	---
Nitration (PA)	%	52	---	---	---
Sulfation (PA)	%	55	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	█ 5	---	---	---
Sodium	ppm	▲ 1723	---	---	---
Potassium	ppm	▲ 66	---	---	---

Diagnosis

We advise that you check for the source of the coolant leak. Check for low coolant level. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. Piston and cylinder wear is indicated. Sodium and/or potassium levels are high. The BN result indicates that there is suitable alkalinity remaining in the oil.

WEAR METALS

Iron	ppm	▲ 90	---	---	---
Copper	ppm	█ 12	---	---	---
Lead	ppm	█ 4	---	---	---
Tin	ppm	█ 1	---	---	---
Aluminum	ppm	▲ 32	---	---	---
Chromium	ppm	█ 3	---	---	---
Molybdenum	ppm	█ 52	---	---	---
Nickel	ppm	█ <1	---	---	---
Titanium	ppm	█ 0	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ <1	---	---	---
Vanadium	ppm	0	---	---	---

ADDITIVES

Calcium	ppm	█ 987	---	---	---
Magnesium	ppm	█ 1057	---	---	---
Zinc	ppm	█ 1095	---	---	---
Phosphorus	ppm	█ 948	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 6	---	---	---

Depot: VPBANANA
Unique No: 10714096
Signed: Jonathan Hester
Report Date: 01 Nov 2023

OIL ANALYSIS REPORT

VOLVO PENTA

GRAPHS

