

# OIL ANALYSIS REPORT

# VOLVO PENTA

## VOLVO PENTA A1059894 - PORT DIESEL ENGINE

Sample No: VPA050525

Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3

### SAMPLE INFORMATION

Sample Number	VPA050525	---	---	---
Sample Date	13 Nov 2023	---	---	---
Machine Hours	440	---	---	---
Oil Hours	200	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	NORMAL	---	---	---

### Aqua Yacht Harbor Marina

3832 Hwy. 25 North, 3832 Hwy. 25 North  
IUKA, MS  
US 38852  
Contact: DENNIS KANIZAI  
dkanizai@shmarinas.com

T:  
F:

### OIL CONDITION

Visc @ 100°C	cSt	█ 13.1	---	---	---
Base Number (BN)	mg KOH/g	█ 9.8	---	---	---
Oxidation (PA)	%	57	---	---	---

### CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	█ 0.1	---	---	---
Nitration (PA)	%	48	---	---	---
Sulfation (PA)	%	52	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	< 1.0	---	---	---
Silicon	ppm	█ 4	---	---	---
Sodium	ppm	█ 0	---	---	---
Potassium	ppm	█ 2	---	---	---

### 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 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	█ 9	---	---	---
Copper	ppm	█ 8	---	---	---
Lead	ppm	█ < 1	---	---	---
Tin	ppm	█ 0	---	---	---
Aluminum	ppm	█ 1	---	---	---
Chromium	ppm	█ 1	---	---	---
Molybdenum	ppm	█ 62	---	---	---
Nickel	ppm	█ 4	---	---	---
Titanium	ppm	█ < 1	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ 0	---	---	---
Vanadium	ppm	0	---	---	---

### ADDITIVES

Calcium	ppm	█ 1101	---	---	---
Magnesium	ppm	█ 949	---	---	---
Zinc	ppm	█ 1208	---	---	---
Phosphorus	ppm	█ 1008	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ < 1	---	---	---

Depot: VP299833  
Unique No: 10751235  
Signed: Sean Felton  
Report Date: 21 Nov 2023

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## GRAPHS

