

# OIL ANALYSIS REPORT

**VOLVO  
PENTA**

## LONDON CALLING PORT A1201474 - STARBOARD DIESEL ENGINE

**Sample No:** VPA048833

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

### SAMPLE INFORMATION

Sample Number	VPA048833	---	---	---
Sample Date	20 Sep 2023	---	---	---
Machine Hours	21	---	---	---
Oil Hours	20	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	NORMAL	---	---	---

### LYMAN MORSE

84 KNOX ST  
THOMASTON, ME  
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### OIL CONDITION

Visc @ 100°C	cSt	█ 12.9	---	---	---
Base Number (BN)	mg KOH/g	█ 10.1	---	---	---
Oxidation (PA)	%	76	---	---	---

### CONTAMINATION

Soot %	%	█ 0.1	---	---	---
Nitration (PA)	%	41	---	---	---
Sulfation (PA)	%	59	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	< 1.0	---	---	---
Silicon	ppm	█ 23	---	---	---
Sodium	ppm	█ 4	---	---	---
Potassium	ppm	█ < 1	---	---	---

### 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 acceptable for the time in service.

### WEAR METALS

Iron	ppm	█ 7	---	---	---
Copper	ppm	█ 15	---	---	---
Lead	ppm	█ 2	---	---	---
Tin	ppm	█ 2	---	---	---
Aluminum	ppm	█ 9	---	---	---
Chromium	ppm	█ < 1	---	---	---
Molybdenum	ppm	█ 38	---	---	---
Nickel	ppm	█ < 1	---	---	---
Titanium	ppm	█ 0	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ 1	---	---	---
Vanadium	ppm	0	---	---	---

### ADDITIVES

Calcium	ppm	█ 1639	---	---	---
Magnesium	ppm	█ 492	---	---	---
Zinc	ppm	█ 959	---	---	---
Phosphorus	ppm	█ 811	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 63	---	---	---

**Depot:** VPLYMTHO  
**Unique No:** 10682078  
**Signed:** Don Baldrige  
**Report Date:** 09 Oct 2023

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## GRAPHS

