

# OIL ANALYSIS REPORT



## LEE POLSTER VOLVO PENTA A1147321 - STARBOARD DIESEL ENGINE

**Sample No:** VPA057011  
**Oil Type:** SHELL ROTELLA T 15W40

### SAMPLE INFORMATION

Sample Number	<b>VPA057011</b>	VPA044512	---	---
Sample Date	<b>26 Nov 2023</b>	21 Oct 2022	---	---
Machine Hours	<b>0</b>	0	---	---
Oil Hours	<b>0</b>	0	---	---
Oil Changed	<b>N/A</b>	Changed	---	---
Sample Status	<b>NORMAL</b>	NORMAL	---	---

**BAY MARINE**  
 3 E MADISON ST  
 WAUKEGAN, IL  
 US 60085  
 Contact: BRENDAN COWHEY  
 brendan@baymarine.net  
 T: (847)336-2628  
 F:

### OIL CONDITION

Visc @ 100°C	cSt	<b>14.0</b>	13.1	---	---
Base Number (BN)	mg KOH/g	<b>8.6</b>	11.5	---	---
Oxidation (PA)	%	<b>62</b>	62	---	---

### 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.

### CONTAMINATION

Water	%	<b>NEG</b>	NEG	---	---
Soot %	%	<b>0.3</b>	0.4	---	---
Nitration (PA)	%	<b>48</b>	49	---	---
Sulfation (PA)	%	<b>56</b>	58	---	---
Glycol	%	<b>NEG</b>	NEG	---	---
Fuel	%	<b>&lt;1.0</b>	<1.0	---	---
Silicon	ppm	<b>7</b>	20	---	---
Sodium	ppm	<b>2</b>	3	---	---
Potassium	ppm	<b>6</b>	2	---	---

### WEAR METALS

Iron	ppm	<b>10</b>	17	---	---
Copper	ppm	<b>10</b>	17	---	---
Lead	ppm	<b>4</b>	8	---	---
Tin	ppm	<b>&lt;1</b>	3	---	---
Aluminum	ppm	<b>4</b>	9	---	---
Chromium	ppm	<b>&lt;1</b>	2	---	---
Molybdenum	ppm	<b>14</b>	54	---	---
Nickel	ppm	<b>2</b>	2	---	---
Titanium	ppm	<b>0</b>	0	---	---
Silver	ppm	<b>0</b>	0	---	---
Manganese	ppm	<b>&lt;1</b>	1	---	---
Vanadium	ppm	<b>0</b>	0	---	---

### ADDITIVES

Calcium	ppm	<b>1907</b>	1141	---	---
Magnesium	ppm	<b>234</b>	847	---	---
Zinc	ppm	<b>1244</b>	1174	---	---
Phosphorus	ppm	<b>956</b>	940	---	---
Barium	ppm	<b>0</b>	0	---	---
Boron	ppm	<b>134</b>	11	---	---

**Depot:** VP1174336  
**Unique No:** 10762481  
**Signed:** Don Baldrige  
**Report Date:** 29 Nov 2023

# OIL ANALYSIS REPORT



## GRAPHS

