

# OIL ANALYSIS REPORT

# VOLVO PENTA

## NADINE URUIOLI MAYTAG VOLVO PENTA A1093632 - STERNDRIVE - STARBOARD DIESEL ENGINE

Sample No: VPA051761

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

### SAMPLE INFORMATION

Sample Number	VPA051761	---	---	---
Sample Date	01 Aug 2023	---	---	---
Machine Hours	140	---	---	---
Oil Hours	140	---	---	---
Oil Changed	Not Changd	---	---	---
Sample Status	NORMAL	---	---	---

#### Helmut's Marine Service

619 Canal Street  
SAN RAFAEL, CA  
US 94901-3545  
Contact: NADINE URUIOLI  
SERVICE@HELMUTSMARINE.COM

T: x:

F: x:

### OIL CONDITION

Visc @ 100°C	cSt	█ 13.3	---	---	---
Base Number (BN)	mg KOH/g	█ 10.1	---	---	---
Oxidation (PA)	%	57	---	---	---

### 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.

### CONTAMINATION

Soot %	%	█ 0	---	---	---
Nitration (PA)	%	40	---	---	---
Sulfation (PA)	%	52	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	< 1.0	---	---	---
Silicon	ppm	█ 8	---	---	---
Sodium	ppm	█ 2	---	---	---
Potassium	ppm	█ < 1	---	---	---

### WEAR METALS

Iron	ppm	█ 9	---	---	---
Copper	ppm	█ 3	---	---	---
Lead	ppm	█ < 1	---	---	---
Tin	ppm	█ < 1	---	---	---
Aluminum	ppm	█ 7	---	---	---
Chromium	ppm	█ < 1	---	---	---
Molybdenum	ppm	█ 60	---	---	---
Nickel	ppm	█ 1	---	---	---
Titanium	ppm	█ 0	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ < 1	---	---	---
Vanadium	ppm	< 1	---	---	---

### ADDITIVES

Calcium	ppm	█ 1244	---	---	---
Magnesium	ppm	█ 992	---	---	---
Zinc	ppm	█ 1351	---	---	---
Phosphorus	ppm	█ 1106	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 7	---	---	---

Depot: VP152741

Unique No: 10591421

Signed: Sean Felton

Report Date: 10 Aug 2023

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## GRAPHS

