

# OIL ANALYSIS REPORT

# VOLVO PENTA

## VOLVO PENTA A159647 - STARBOARD DIESEL ENGINE

Sample No: VPA060380

Oil Type: VOLVO PENTA SAE 15W40

### SAMPLE INFORMATION

Sample Number	VPA060380	---	---	---
Sample Date	14 Mar 2024	---	---	---
Machine Hours	555	---	---	---
Oil Hours	45	---	---	---
Oil Changed	Not Changd	---	---	---
Sample Status	NORMAL	---	---	---

### SMART DIESEL SERVICE

102 NW 133RD AVE, UNIT 103  
PLANTATION, FL  
US 33325  
Contact: ANDRES GARMENDIA  
smartdieselservice@gmail.com  
T: (954)258-8100  
F:

### OIL CONDITION

Visc @ 100°C	cSt	█ 13.3	---	---	---
Base Number (BN)	mg KOH/g	█ 9.8	---	---	---
Oxidation (PA)	%	58	---	---	---

### 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	%	NEG	---	---	---
Soot %	%	█ 0.2	---	---	---
Nitration (PA)	%	52	---	---	---
Sulfation (PA)	%	52	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	< 1.0	---	---	---
Silicon	ppm	█ 3	---	---	---
Sodium	ppm	█ 0	---	---	---
Potassium	ppm	█ 2	---	---	---

### WEAR METALS

Iron	ppm	█ 6	---	---	---
Copper	ppm	█ 5	---	---	---
Lead	ppm	█ < 1	---	---	---
Tin	ppm	█ < 1	---	---	---
Aluminum	ppm	█ 3	---	---	---
Chromium	ppm	█ < 1	---	---	---
Molybdenum	ppm	█ 64	---	---	---
Nickel	ppm	█ < 1	---	---	---
Titanium	ppm	█ < 1	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ < 1	---	---	---
Vanadium	ppm	< 1	---	---	---

### ADDITIVES

Calcium	ppm	█ 1220	---	---	---
Magnesium	ppm	█ 942	---	---	---
Zinc	ppm	█ 1244	---	---	---
Phosphorus	ppm	█ 985	---	---	---
Barium	ppm	█ 2	---	---	---
Boron	ppm	█ 7	---	---	---

Depot: VPSMAPLA  
Unique No: 10939505  
Signed: Jonathan Hester  
Report Date: 22 Mar 2024

# OIL ANALYSIS REPORT

# VOLVO PENTA

## GRAPHS

