

# OIL ANALYSIS REPORT

# VOLVO PENTA

## JOEL BATULEK TOM VOLVO PENTA A321840 - STARBOARD DIESEL ENGINE

**Sample No:** VPA021990  
**Oil Type:** VOLVO PENTA SAE 15W40

### SAMPLE INFORMATION

Sample Number	VPA021990	---	---	---
Sample Date	19 Nov 2023	---	---	---
Machine Hours	405	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Not Changd	---	---	---
Sample Status	NORMAL	---	---	---

**ADMIRALTY MARINE**  
2775 KURTZ ST, STE 12  
SAN DIEGO, CA  
US 92110  
Contact: Terry Albee  
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T:  
F:

### OIL CONDITION

Visc @ 100°C	cSt	█ 13.5	---	---	---
Base Number (BN)	mg KOH/g	█ 10.2	---	---	---
Oxidation (PA)	%	55	---	---	---

### CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	█ 0.1	---	---	---
Nitration (PA)	%	43	---	---	---
Sulfation (PA)	%	52	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	█ 5	---	---	---
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	█ 16	---	---	---
Copper	ppm	█ 14	---	---	---
Lead	ppm	█ 6	---	---	---
Tin	ppm	█ <1	---	---	---
Aluminum	ppm	█ 1	---	---	---
Chromium	ppm	█ <1	---	---	---
Molybdenum	ppm	█ 63	---	---	---
Nickel	ppm	█ 1	---	---	---
Titanium	ppm	█ <1	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ 0	---	---	---
Vanadium	ppm	0	---	---	---

### ADDITIVES

Calcium	ppm	█ 1082	---	---	---
Magnesium	ppm	█ 962	---	---	---
Zinc	ppm	█ 1227	---	---	---
Phosphorus	ppm	█ 1009	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 0	---	---	---

**Depot:** VP151529  
**Unique No:** 10751306  
**Signed:** Doug Bogart  
**Report Date:** 21 Nov 2023

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## GRAPHS

