

# OIL ANALYSIS REPORT

**VOLVO  
PENTA**

## 20132164691 - PORT DIESEL ENGINE

**Sample No:** VPA036619

**Oil Type:** DIESEL ENGINE OIL SAE 15W40

### SAMPLE INFORMATION

Sample Number	VPA036619	---	---	---
Sample Date	02 Nov 2023	---	---	---
Machine Hours	190	---	---	---
Oil Hours	0	---	---	---
Oil Changed	N/A	---	---	---
Sample Status	NORMAL	---	---	---

### ADVANCED DIESEL

1029 INDUSTRIAL BLVD, UNIT 2  
NAPLES, FL  
US 34104  
Contact: KEITH SPICER  
keith\_advanceddiesel@yahoo.com  
T: (239)580-8731  
F:

### OIL CONDITION

Visc @ 100°C	cSt	█ 13.8	---	---	---
Base Number (BN)	mg KOH/g	█ 7.4	---	---	---
Oxidation (PA)	%	53	---	---	---

### CONTAMINATION

Soot %	%	█ 0.4	---	---	---
Nitration (PA)	%	64	---	---	---
Sulfation (PA)	%	53	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	█ 13	---	---	---
Sodium	ppm	█ 0	---	---	---
Potassium	ppm	█ 15	---	---	---

### Diagnosis

No corrective action is recommended at this time. 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 condition of the oil is acceptable for the time in service.

### WEAR METALS

Iron	ppm	█ 13	---	---	---
Copper	ppm	█ 4	---	---	---
Lead	ppm	█ 1	---	---	---
Tin	ppm	█ <1	---	---	---
Aluminum	ppm	█ 9	---	---	---
Chromium	ppm	█ <1	---	---	---
Molybdenum	ppm	█ 76	---	---	---
Nickel	ppm	█ <1	---	---	---
Titanium	ppm	█ 3	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ <1	---	---	---
Vanadium	ppm	0	---	---	---

### ADDITIVES

Calcium	ppm	█ 1818	---	---	---
Magnesium	ppm	█ 253	---	---	---
Zinc	ppm	█ 1207	---	---	---
Phosphorus	ppm	█ 1126	---	---	---
Barium	ppm	█ 5	---	---	---
Boron	ppm	█ 142	---	---	---

**Depot:** VPADVNP  
**Unique No:** 10728557  
**Signed:** Doug Bogart  
**Report Date:** 07 Nov 2023

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## GRAPHS

