

# OIL ANALYSIS REPORT

# VOLVO PENTA

## A829305 - PORT DIESEL ENGINE

Sample No: VPA039796

Oil Type: DIESEL ENGINE OIL SAE 15W40

### SAMPLE INFORMATION

Sample Number	VPA039796	VPA035283	---	---
Sample Date	31 Jul 2023	29 Dec 2021	---	---
Machine Hours	421	239	---	---
Oil Hours	0	0	---	---
Oil Changed	N/A	N/A	---	---
Sample Status	NORMAL	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	█ 13.7	█ 13.2	---	---
Base Number (BN)	mg KOH/g	█ 9.9	█ 10.6	---	---
Oxidation (PA)	%	59	58	---	---

### CONTAMINATION

Soot %	%	█ 0.7	█ 0.1	---	---
Nitration (PA)	%	60	47	---	---
Sulfation (PA)	%	56	53	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	█ 4	█ 5	---	---
Sodium	ppm	█ 0	█ <1	---	---
Potassium	ppm	█ 1	█ 0	---	---

### 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	█ 31	█ 11	---	---
Copper	ppm	█ 12	█ 4	---	---
Lead	ppm	█ 5	█ <1	---	---
Tin	ppm	█ 1	█ <1	---	---
Aluminum	ppm	█ 21	█ 2	---	---
Chromium	ppm	█ 3	█ <1	---	---
Molybdenum	ppm	█ 64	█ 51	---	---
Nickel	ppm	█ 2	█ 0	---	---
Titanium	ppm	█ 0	█ 0	---	---
Silver	ppm	█ <1	█ 0	---	---
Manganese	ppm	█ <1	<1	---	---
Vanadium	ppm	0	0	---	---

### ADDITIVES

Calcium	ppm	█ 1095	█ 1015	---	---
Magnesium	ppm	█ 960	█ 851	---	---
Zinc	ppm	█ 1228	█ 1119	---	---
Phosphorus	ppm	█ 1026	█ 928	---	---
Barium	ppm	█ 2	█ 1	---	---
Boron	ppm	█ 1	█ 4	---	---

Depot: VPADVNP  
Unique No: 10586110  
Signed: Jonathan Hester  
Report Date: 03 Aug 2023

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## GRAPHS

