

# OIL ANALYSIS REPORT

# VOLVO PENTA

## BILL BENDA VOLVO PENTA A1119860 - PORT DIESEL ENGINE

Sample No: VPA036174

Oil Type: VOLVO VDS-4.5 Premium Motor Oil 15W40

### SAMPLE INFORMATION

Sample Number	VPA036174	VPA044088	---	---
Sample Date	11 Oct 2023	17 Nov 2022	---	---
Machine Hours	397	0	---	---
Oil Hours	60	0	---	---
Oil Changed	Not Changd	Changed	---	---
Sample Status	NORMAL	NORMAL	---	---

### OIL CONDITION

Visc @ 100°C	cSt	█ 13.4	█ 13.4	---	---
Base Number (BN)	mg KOH/g	█ 10.4	█ 11.4	---	---
Oxidation (PA)	%	55	59	---	---

### CONTAMINATION

Soot %	%	█ 0.1	█ 0.3	---	---
Nitration (PA)	%	40	48	---	---
Sulfation (PA)	%	51	57	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	█ 4	█ 5	---	---
Sodium	ppm	█ 1	█ 0	---	---
Potassium	ppm	█ 0	█ 1	---	---

### WEAR METALS

Iron	ppm	█ 4	█ 10	---	---
Copper	ppm	█ 3	█ 6	---	---
Lead	ppm	█ <1	█ 1	---	---
Tin	ppm	█ 0	█ <1	---	---
Aluminum	ppm	█ <1	█ 1	---	---
Chromium	ppm	█ 0	█ <1	---	---
Molybdenum	ppm	█ 55	█ 59	---	---
Nickel	ppm	█ 0	█ 0	---	---
Titanium	ppm	█ 0	█ 0	---	---
Silver	ppm	█ 0	█ 0	---	---
Manganese	ppm	█ 0	█ <1	---	---
Vanadium	ppm	0	0	---	---

### ADDITIVES

Calcium	ppm	994	█ 1111	---	---
Magnesium	ppm	█ 878	█ 880	---	---
Zinc	ppm	█ 1107	█ 1205	---	---
Phosphorus	ppm	█ 940	█ 1018	---	---
Barium	ppm	█ 0	█ 0	---	---
Boron	ppm	█ 0	█ 4	---	---

### BAY MARINE

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T:  
F:

### 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.

Depot: VP1174336

Unique No: 10698226

Signed: Don Baldrige

Report Date: 18 Oct 2023

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## GRAPHS

