

# OIL ANALYSIS REPORT

# VOLVO PENTA

## 502093 VOLVO PENTA NOT GIVEN VPA051863 - CENTER DIESEL ENGINE

Sample No: VPA051863

Oil Type: CHEVRON DELO 400 MULTIGRADE 15W40

### SAMPLE INFORMATION

Sample Number	VPA051863	---	---	---
Sample Date	16 Oct 2023	---	---	---
Machine Hours	1298	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	NORMAL	---	---	---

#### North Harbor Diesel Inc

720 30Th Street  
ANACORTES, WA  
US 98221  
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### OIL CONDITION

Visc @ 100°C	cSt	█ 13.8	---	---	---
Base Number (BN)	mg KOH/g	█ 8.7	---	---	---
Oxidation (PA)	%	53	---	---	---

### 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.

### CONTAMINATION

Soot %	%	█ 0.1	---	---	---
Nitration (PA)	%	72	---	---	---
Sulfation (PA)	%	49	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	< 1.0	---	---	---
Silicon	ppm	█ 16	---	---	---
Sodium	ppm	█ 3	---	---	---
Potassium	ppm	█ < 1	---	---	---

### WEAR METALS

Iron	ppm	█ 19	---	---	---
Copper	ppm	█ 3	---	---	---
Lead	ppm	█ 0	---	---	---
Tin	ppm	█ < 1	---	---	---
Aluminum	ppm	█ 1	---	---	---
Chromium	ppm	█ < 1	---	---	---
Molybdenum	ppm	█ 5	---	---	---
Nickel	ppm	█ < 1	---	---	---
Titanium	ppm	█ 0	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ < 1	---	---	---
Vanadium	ppm	0	---	---	---

### ADDITIVES

Calcium	ppm	█ 1281	---	---	---
Magnesium	ppm	█ 764	---	---	---
Zinc	ppm	█ 832	---	---	---
Phosphorus	ppm	█ 567	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 89	---	---	---

Depot: VP179089  
Unique No: 10711570  
Signed: Sean Felton  
Report Date: 27 Oct 2023

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## GRAPHS

