

# OIL ANALYSIS REPORT

# VOLVO PENTA

## MISS DODIE MISS DODIE VOLVO PENTA A 1080704 - STARBOARD DIESEL ENGINE

Sample No: VPA058272

Oil Type: CHEVRON DELO 400 MULTIGRADE 15W40

### SAMPLE INFORMATION

Sample Number	VPA058272	---	---	---
Sample Date	09 Nov 2023	---	---	---
Machine Hours	1334	---	---	---
Oil Hours	174	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	NORMAL	---	---	---

#### North Harbor Diesel Inc

720 30Th Street  
ANACORTES, WA  
US 98221  
Contact: ROBBIN MURDOCK  
robbin@northharbordiesel.com  
T: (360)299-1904  
F:

### OIL CONDITION

Visc @ 100°C	cSt	█ 13.8	---	---	---
Base Number (BN)	mg KOH/g	█ 7.6	---	---	---
Oxidation (PA)	%	51	---	---	---

### 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.

### CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	█ 0.3	---	---	---
Nitration (PA)	%	68	---	---	---
Sulfation (PA)	%	50	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	< 1.0	---	---	---
Silicon	ppm	█ 11	---	---	---
Sodium	ppm	█ 2	---	---	---
Potassium	ppm	█ 2	---	---	---

### WEAR METALS

Iron	ppm	█ 17	---	---	---
Copper	ppm	█ 8	---	---	---
Lead	ppm	█ 2	---	---	---
Tin	ppm	█ 2	---	---	---
Aluminum	ppm	█ 11	---	---	---
Chromium	ppm	█ 1	---	---	---
Molybdenum	ppm	3	---	---	---
Nickel	ppm	█ 2	---	---	---
Titanium	ppm	█ 0	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ < 1	---	---	---
Vanadium	ppm	0	---	---	---

### ADDITIVES

Calcium	ppm	█ 1355	---	---	---
Magnesium	ppm	█ 769	---	---	---
Zinc	ppm	█ 864	---	---	---
Phosphorus	ppm	█ 753	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 87	---	---	---

Depot: VP179089  
Unique No: 10749746  
Signed: Sean Felton  
Report Date: 20 Nov 2023

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## GRAPHS

