

# OIL ANALYSIS REPORT

# VOLVO PENTA

**MONICA SELL 41084 VOLVO PENTA A1069027 - CENTER DIESEL ENGINE**

**Sample No:** VPA042954

**Oil Type:** CHEVRON DELO 400 MULTIGRADE 15W40

## SAMPLE INFORMATION

Sample Number	VPA042954	---	---	---
Sample Date	27 Sep 2022	---	---	---
Machine Hours	210	---	---	---
Oil Hours	100	---	---	---
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	█ 13.5	---	---	---
Base Number (BN)	mg KOH/g	█ 9.7	---	---	---
Oxidation (PA)	%	52	---	---	---

## 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 %	%	█ 0.1	---	---	---
Nitration (PA)	%	62	---	---	---
Sulfation (PA)	%	52	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	< 1.0	---	---	---
Silicon	ppm	█ 6	---	---	---
Sodium	ppm	█ 2	---	---	---
Potassium	ppm	█ 2	---	---	---

## WEAR METALS

Iron	ppm	█ 9	---	---	---
Copper	ppm	█ 7	---	---	---
Lead	ppm	█ 1	---	---	---
Tin	ppm	█ < 1	---	---	---
Aluminum	ppm	█ 8	---	---	---
Chromium	ppm	█ < 1	---	---	---
Molybdenum	ppm	█ 10	---	---	---
Nickel	ppm	█ 3	---	---	---
Titanium	ppm	█ < 1	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ < 1	---	---	---
Vanadium	ppm	< 1	---	---	---

## ADDITIVES

Calcium	ppm	█ 1213	---	---	---
Magnesium	ppm	█ 694	---	---	---
Zinc	ppm	█ 826	---	---	---
Phosphorus	ppm	█ 723	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 66	---	---	---

**Depot:** VP179089  
**Unique No:** 10162907  
**Signed:** Jonathan Hester  
**Report Date:** 07 Oct 2022

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## GRAPHS

