

# OIL ANALYSIS REPORT

# VOLVO PENTA

## GEMINI ZB599432 - STARBOARD GASOLINE ENGINE

**Sample No:** VPA047817  
**Oil Type:** MERCURY 10W40

### SAMPLE INFORMATION

Sample Number	VPA047817	---	---	---
Sample Date	18 Dec 2023	---	---	---
Machine Hours	0	---	---	---
Oil Hours	120	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	SEVERE	---	---	---

### OIL CONDITION

Visc @ 100°C	cSt	8.2	---	---	---
Base Number (BN)	mg KOH/g	10.1	---	---	---
Oxidation (PA)	%	14	---	---	---

### CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	0.1	---	---	---
Nitration (PA)	%	9	---	---	---
Sulfation (PA)	%	11	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	9.0	---	---	---
Silicon	ppm	11	---	---	---
Sodium	ppm	3	---	---	---
Potassium	ppm	5	---	---	---

### WEAR METALS

Iron	ppm	4	---	---	---
Copper	ppm	2	---	---	---
Lead	ppm	0	---	---	---
Tin	ppm	<1	---	---	---
Aluminum	ppm	2	---	---	---
Chromium	ppm	0	---	---	---
Molybdenum	ppm	41	---	---	---
Nickel	ppm	<1	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	<1	---	---	---
Vanadium	ppm	0	---	---	---

### ADDITIVES

Calcium	ppm	1850	---	---	---
Magnesium	ppm	13	---	---	---
Zinc	ppm	757	---	---	---
Phosphorus	ppm	668	---	---	---
Barium	ppm	0	---	---	---
Boron	ppm	169	---	---	---

#### The Talaria Company

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#### Diagnosis

We advise that you check the fuel injection system. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. All component wear rates are normal. There is a high amount of fuel present in the oil. Tests confirm the presence of fuel in the oil. Fuel is present in the oil and is lowering the viscosity. The BN result indicates that there is suitable alkalinity remaining in the oil.

**Depot:** VP592286  
**Unique No:** 10794172  
**Signed:** Angela Borella  
**Report Date:** 22 Dec 2023

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## GRAPHS

