

# OIL ANALYSIS REPORT

# VOLVO PENTA

## ALEX PANAGOS MERCUISER 0L647743 - STARBOARD GASOLINE ENGINE

**Sample No:** VPA048605  
**Oil Type:** MERCURY 25W40

### SAMPLE INFORMATION

Sample Number	VPA048605	---	---	---
Sample Date	01 Dec 2023	---	---	---
Machine Hours	662	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ABNORMAL	---	---	---

**CHICAGO YACHT WORKS**  
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### OIL CONDITION

Visc @ 100°C	cSt	▲ 11.0	---	---	---
Base Number (BN)	mg KOH/g	■ 7.1	---	---	---
Oxidation (PA)	%	13	---	---	---

### Diagnosis

We advise that you check the fuel injection system. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. There is a moderate amount of fuel present 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.

### CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	■ 0	---	---	---
Nitration (PA)	%	7	---	---	---
Sulfation (PA)	%	10	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	▲ 7.7	---	---	---
Silicon	ppm	■ 13	---	---	---
Sodium	ppm	■ 1	---	---	---
Potassium	ppm	■ 1	---	---	---

### WEAR METALS

Iron	ppm	■ 108	---	---	---
Copper	ppm	■ 2	---	---	---
Lead	ppm	■ <1	---	---	---
Tin	ppm	■ <1	---	---	---
Aluminum	ppm	■ 1	---	---	---
Chromium	ppm	■ <1	---	---	---
Molybdenum	ppm	56	---	---	---
Nickel	ppm	■ 0	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	■ 0	---	---	---
Manganese	ppm	0	---	---	---
Vanadium	ppm	0	---	---	---

### ADDITIVES

Calcium	ppm	2138	---	---	---
Magnesium	ppm	12	---	---	---
Zinc	ppm	889	---	---	---
Phosphorus	ppm	796	---	---	---
Barium	ppm	3	---	---	---
Boron	ppm	223	---	---	---

**Depot:** VP1080862  
**Unique No:** 10778815  
**Signed:** Jonathan Hester  
**Report Date:** 18 Dec 2023

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## GRAPHS

