

# OIL ANALYSIS REPORT

# VOLVO PENTA

## IGOR DONIN MERCUISER 2A6403 1 I - STARBOARD GASOLINE ENGINE

**Sample No:** VPA060091  
**Oil Type:** 25W50 SYNTHETIC

### SAMPLE INFORMATION

Sample Number	VPA060091	VPA056188	---	---
Sample Date	28 May 2024	13 Oct 2023	---	---
Machine Hours	0	150	---	---
Oil Hours	0	0	---	---
Oil Changed	N/A	N/A	---	---
Sample Status	SEVERE	SEVERE	---	---

### OIL CONDITION

Visc @ 100°C	cSt	▲ 11.0	▲ 8.7	---	---
Base Number (BN)	mg KOH/g	■ 9.5	■ 9.9	---	---
Oxidation (PA)	%	■ 13	■ 15	---	---

### CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	■ 0.1	■ 0.1	---	---
Nitration (PA)	%	■ 7	■ 9	---	---
Sulfation (PA)	%	■ 10	■ 11	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	▲ 9.9	▲ 15.2	---	---
Silicon	ppm	■ 14	■ 15	---	---
Sodium	ppm	■ 3	■ <1	---	---
Potassium	ppm	■ 0	■ 0	---	---

### WEAR METALS

Iron	ppm	■ 12	■ 10	---	---
Copper	ppm	■ 5	■ 4	---	---
Lead	ppm	■ 0	■ 0	---	---
Tin	ppm	■ <1	■ <1	---	---
Aluminum	ppm	■ <1	■ <1	---	---
Chromium	ppm	■ 0	■ 0	---	---
Molybdenum	ppm	■ 46	■ 46	---	---
Nickel	ppm	■ 0	■ 0	---	---
Titanium	ppm	■ 0	■ 0	---	---
Silver	ppm	■ 0	■ 0	---	---
Manganese	ppm	■ <1	■ 0	---	---
Vanadium	ppm	■ 0	■ 0	---	---

### ADDITIVES

Calcium	ppm	■ 2135	■ 1945	---	---
Magnesium	ppm	■ 11	■ 11	---	---
Zinc	ppm	■ 835	■ 795	---	---
Phosphorus	ppm	■ 740	■ 696	---	---
Barium	ppm	■ <1	■ 0	---	---
Boron	ppm	■ 219	■ 178	---	---

#### Skipper Bud's

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#### Diagnosis

We advise that you check the fuel injection system. We recommend that you drain the oil from the component if this has not already been done. 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. Fuel is present in the oil and is lowering the viscosity. The BN result indicates that there is suitable alkalinity remaining in the oil. The oil is no longer serviceable due to the presence of contaminants.

**Depot:** VP211714  
**Unique No:** 11058300  
**Signed:** Jonathan Hester  
**Report Date:** 04 Jun 2024

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## GRAPHS

