

# OIL ANALYSIS REPORT

**VOLVO  
PENTA**

## NOT GIVEN VPA056628 (S/N NO INFO ON SIF/BOTTLE) - GENSET

Sample No: VPA056628

Oil Type: NOT GIVEN

### SAMPLE INFORMATION

Sample Number	VPA056628	---	---	---
Sample Date	09 Oct 2023	---	---	---
Machine Hours	0	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Not Changd	---	---	---
Sample Status	SEVERE	---	---	---

### OIL CONDITION

Visc @ 100°C	cSt	█ 12.8	---	---	---
Base Number (BN)	mg KOH/g	█ 7.1	---	---	---
Oxidation (PA)	%	69	---	---	---

### CONTAMINATION

Soot %	%	█ 0.3	---	---	---
Nitration (PA)	%	48	---	---	---
Sulfation (PA)	%	79	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	< 1.0	---	---	---
Silicon	ppm	▲ 29	---	---	---
Sodium	ppm	█ 6	---	---	---
Potassium	ppm	█ 4	---	---	---

### WEAR METALS

Iron	ppm	● 1074	---	---	---
Copper	ppm	▲ 107	---	---	---
Lead	ppm	█ 7	---	---	---
Tin	ppm	█ < 1	---	---	---
Aluminum	ppm	● 60	---	---	---
Chromium	ppm	● 13	---	---	---
Molybdenum	ppm	136	---	---	---
Nickel	ppm	● 5	---	---	---
Titanium	ppm	2	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	6	---	---	---
Vanadium	ppm	< 1	---	---	---

### ADDITIVES

Calcium	ppm	1767	---	---	---
Magnesium	ppm	642	---	---	---
Zinc	ppm	736	---	---	---
Phosphorus	ppm	2636	---	---	---
Barium	ppm	2	---	---	---
Boron	ppm	208	---	---	---

#### ALL SYSTEMS MARINE

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US 32505

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#### Diagnosis

We recommend that you drain the oil and perform a filter service on this component if not already done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. The copper level is abnormal. Piston, ring and cylinder wear is indicated. Valve wear is indicated. Elemental level of silicon (Si) above normal indicating ingress of seal material. The BN result indicates that there is suitable alkalinity remaining in the oil. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Depot: VP99220003

Unique No: 10688762

Signed: Jonathan Hester

Report Date: 16 Oct 2023

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## GRAPHS

