

# OIL ANALYSIS REPORT

**VOLVO  
PENTA**

## TIM HAGEN ONAN TIM HAGEN (S/N NOT GIVEN) - GENSET

Sample No: VPA050524

Oil Type: SHELL ROTELLA T 15W40

### SAMPLE INFORMATION

Sample Number	VPA050524	---	---	---
Sample Date	08 Nov 2023	---	---	---
Machine Hours	200	---	---	---
Oil Hours	200	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	NORMAL	---	---	---

**Aqua Yacht Harbor Marina**  
3832 Hwy. 25 North, 3832 Hwy. 25 North  
IUKA, MS  
US 38852  
Contact: DENNIS KANIZAI  
dkanizai@shmarinas.com  
T:  
F:

### OIL CONDITION

Visc @ 100°C	cSt	█ 13.7	---	---	---
Base Number (BN)	mg KOH/g	█ 7.8	---	---	---
Oxidation (PA)	%	65	---	---	---

### CONTAMINATION

Soot %	%	█ 0.1	---	---	---
Nitration (PA)	%	56	---	---	---
Sulfation (PA)	%	56	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	< 1.0	---	---	---
Silicon	ppm	█ 14	---	---	---
Sodium	ppm	█ < 1	---	---	---
Potassium	ppm	█ 7	---	---	---

### 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 acceptable for the time in service.

### WEAR METALS

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

### ADDITIVES

Calcium	ppm	█ 2181	---	---	---
Magnesium	ppm	█ 32	---	---	---
Zinc	ppm	█ 1236	---	---	---
Phosphorus	ppm	█ 1004	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 176	---	---	---

Depot: VP299833  
Unique No: 10741276  
Signed: Don Baldrige  
Report Date: 16 Nov 2023

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## GRAPHS

