

# OIL ANALYSIS REPORT

**VOLVO  
PENTA**

## HARDESTY HARDESTY ONAN HARDESTY (S/N NOT GIVEN) - GENSET

Sample No: VPA055254

Oil Type: NOT GIVEN

### SAMPLE INFORMATION

Sample Number	VPA055254	---	---	---
Sample Date	11 Jul 2023	---	---	---
Machine Hours	93	---	---	---
Oil Hours	0	---	---	---
Oil Changed	N/A	---	---	---
Sample Status	NORMAL	---	---	---

#### Harry's Marine Service LLC

1141 N. Citrus St.

Orange, CA

US 92887

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F:

### OIL CONDITION

Visc @ 100°C	cSt	█ 12.66	---	---	---
Oxidation (PA)	%	0	---	---	---

### CONTAMINATION

Soot %	%	█ 0	---	---	---
Nitration (PA)	%	0	---	---	---
Sulfation (PA)	%	0	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	█ 14	---	---	---
Sodium	ppm	█ 6	---	---	---
Potassium	ppm	█ 2	---	---	---

### Diagnosis

No corrective action is recommended at this time. 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 condition of the oil is acceptable for the time in service.

### WEAR METALS

Iron	ppm	█ 12	---	---	---
Copper	ppm	█ 13	---	---	---
Lead	ppm	█ 0	---	---	---
Tin	ppm	█ <1	---	---	---
Aluminum	ppm	█ 2	---	---	---
Chromium	ppm	█ <1	---	---	---
Molybdenum	ppm	40	---	---	---
Nickel	ppm	█ 0	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	█ <1	---	---	---
Manganese	ppm	2	---	---	---
Vanadium	ppm	0	---	---	---

### ADDITIVES

Calcium	ppm	1780	---	---	---
Magnesium	ppm	524	---	---	---
Zinc	ppm	1122	---	---	---
Phosphorus	ppm	944	---	---	---
Barium	ppm	3	---	---	---
Boron	ppm	57	---	---	---

Depot: VP867279

Unique No: 10559202

Signed: Doug Bogart

Report Date: 13 Jul 2023

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## GRAPHS

