

# OIL ANALYSIS REPORT

# VOLVO PENTA

## DEAR ABBY K190678572 - GENSET

Sample No: VPA047830

Oil Type: SHELL ROTELLA T 15W40

### SAMPLE INFORMATION

Sample Number	<b>VPA047830</b>	VPA043555	VPA031322	---
Sample Date	<b>20 Nov 2023</b>	12 Jan 2023	20 Jan 2022	---
Machine Hours	<b>290</b>	206	188	---
Oil Hours	<b>85</b>	18	0	---
Oil Changed	<b>Changed</b>	N/A	Not Changd	---
Sample Status	<b>NORMAL</b>	NORMAL	ATTENTION	---

### OIL CONDITION

Visc @ 100°C	cSt	<b>13.7</b>	13.4	▲ 12.2	---
Base Number (BN)	mg KOH/g	<b>8.2</b>	10.6	11.2	---
Oxidation (PA)	%	<b>62</b>	59	67	---

### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	---
Soot %	%	<b>0.1</b>	0.1	0.1	---
Nitration (PA)	%	<b>47</b>	62	66	---
Sulfation (PA)	%	<b>54</b>	52	57	---
Glycol	%	<b>NEG</b>	NEG	NEG	---
Fuel	%	<b>&lt;1.0</b>	<1.0	2.0	---
Silicon	ppm	<b>4</b>	12	28	---
Sodium	ppm	<b>1</b>	2	4	---
Potassium	ppm	<b>5</b>	6	0	---

### WEAR METALS

Iron	ppm	<b>1</b>	5	15	---
Copper	ppm	<b>0</b>	3	12	---
Lead	ppm	<b>&lt;1</b>	1	1	---
Tin	ppm	<b>0</b>	<1	<1	---
Aluminum	ppm	<b>&lt;1</b>	1	4	---
Chromium	ppm	<b>0</b>	<1	<1	---
Molybdenum	ppm	<b>&lt;1</b>	16	57	---
Nickel	ppm	<b>0</b>	<1	0	---
Titanium	ppm	<b>0</b>	0	<1	---
Silver	ppm	<b>0</b>	0	0	---
Manganese	ppm	<b>0</b>	<1	3	---
Vanadium	ppm	<b>0</b>	<1	0	---

### ADDITIVES

Calcium	ppm	<b>2164</b>	2174	1962	---
Magnesium	ppm	<b>22</b>	134	468	---
Zinc	ppm	<b>1279</b>	1242	1220	---
Phosphorus	ppm	<b>1018</b>	1027	983	---
Barium	ppm	<b>0</b>	<1	5	---
Boron	ppm	<b>194</b>	168	59	---

#### The Talaria Company

202 Banks St., One Little Harbor Landing  
 OXFORD, MD  
 US 21654  
 Contact: TRACY PELLERIN  
 tpellerin@hinckleyyachts.com  
 T: (410)770-4899  
 F: x:

#### Diagnosis

Resample at the next service interval to monitor. Metal levels are typical for a new component breaking in. 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 suitable for further service.

Depot: VP592286  
 Unique No: 10767904  
 Signed: Sean Felton  
 Report Date: 05 Dec 2023

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## GRAPHS

