

# OIL ANALYSIS REPORT

**VOLVO  
PENTA**

**RICHARD CANNY 506239 VOLVO PENTA A186554 - PORT DIESEL ENGINE**

**Sample No:** VPA053683

**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3

## SAMPLE INFORMATION

Sample Number	<b>VPA053683</b>	VPA042455	VPA037106	---
Sample Date	<b>08 May 2024</b>	15 Feb 2023	24 Feb 2022	---
Machine Hours	<b>408</b>	372	307	---
Oil Hours	<b>0</b>	0	0	---
Oil Changed	<b>Changed</b>	Changed	Changed	---
Sample Status	<b>ATTENTION</b>	ABNORMAL	NORMAL	---

**Jefferson Beach Yacht Sales Inc**  
24400 Jefferson Ave.  
SAINT CLAIR SHORES, MI  
US 48080  
Contact: DENNIS BUTT  
dbutt@jbys.com  
T: (866)490-5297  
F:

## OIL CONDITION

Visc @ 100°C	cSt	<b>13.8</b>	14.3	13.1	---
Base Number (BN)	mg KOH/g	<b>10.1</b>	10.0	9.4	---
Oxidation (PA)	%	<b>56</b>	55	53	---

## CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	---
Soot %	%	<b>1</b>	1.6	0.5	---
Nitration (PA)	%	<b>55</b>	68	52	---
Sulfation (PA)	%	<b>55</b>	63	47	---
Glycol	%	<b>NEG</b>	NEG	NEG	---
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	---
Silicon	ppm	<b>11</b>	16	7	---
Sodium	ppm	<b>7</b>	5	2	---
Potassium	ppm	<b>4</b>	6	0	---

## WEAR METALS

Iron	ppm	<b>247</b>	301	38	---
Copper	ppm	<b>29</b>	34	7	---
Lead	ppm	<b>1</b>	3	2	---
Tin	ppm	<b>&lt;1</b>	2	2	---
Aluminum	ppm	<b>42</b>	41	7	---
Chromium	ppm	<b>19</b>	20	3	---
Molybdenum	ppm	<b>66</b>	56	57	---
Nickel	ppm	<b>4</b>	6	<1	---
Titanium	ppm	<b>0</b>	<1	<1	---
Silver	ppm	<b>0</b>	0	0	---
Manganese	ppm	<b>2</b>	3	<1	---
Vanadium	ppm	<b>0</b>	0	0	---

## ADDITIVES

Calcium	ppm	<b>1223</b>	1010	1048	---
Magnesium	ppm	<b>1031</b>	901	915	---
Zinc	ppm	<b>1344</b>	1163	1106	---
Phosphorus	ppm	<b>1134</b>	1092	983	---
Barium	ppm	<b>0</b>	0	0	---
Boron	ppm	<b>1</b>	45	19	---

## Diagnosis

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. We recommend an early resample to monitor this condition. Cylinder, crank, or cam shaft wear is indicated. Piston, ring and cylinder wear is indicated. 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.

**Depot:** VP297371  
**Unique No:** 11021120  
**Signed:** Don Baldrige  
**Report Date:** 13 May 2024

# OIL ANALYSIS REPORT



## GRAPHS

