

# OIL ANALYSIS REPORT



## LONNIE MARON-TIARA VOLVO PENTA 2006006435 - PORT DIESEL ENGINE

**Sample No:** VPA036734  
**Oil Type:** SHELL ROTELLA T 15W40

### SAMPLE INFORMATION

Sample Number	<b>VPA036734</b>	VPA043414	---	---
Sample Date	<b>16 Jan 2024</b>	02 Dec 2022	---	---
Machine Hours	<b>1151</b>	1117	---	---
Oil Hours	<b>1151</b>	1117	---	---
Oil Changed	<b>Changed</b>	Changed	---	---
Sample Status	<b>NORMAL</b>	NORMAL	---	---

**Larry's Lighthouse Marina**  
 1250  
 AQUEBOGUE, NY  
 US 11931  
 Contact: MAX FUHLBRUGGE  
 info@lighthousemarina.com  
 T: x  
 F: x

### OIL CONDITION

Visc @ 100°C	cSt	<b>14.1</b>	14.3	---	---
Base Number (BN)	mg KOH/g	<b>7.9</b>	9.9	---	---
Oxidation (PA)	%	<b>59</b>	44	---	---

### CONTAMINATION

Water	%	<b>NEG</b>	NEG	---	---
Soot %	%	<b>0.1</b>	0.1	---	---
Nitration (PA)	%	<b>47</b>	53	---	---
Sulfation (PA)	%	<b>52</b>	45	---	---
Glycol	%	<b>NEG</b>	NEG	---	---
Fuel	%	<b>&lt;1.0</b>	<1.0	---	---
Silicon	ppm	<b>3</b>	3	---	---
Sodium	ppm	<b>2</b>	2	---	---
Potassium	ppm	<b>7</b>	4	---	---

### 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	<b>5</b>	14	---	---
Copper	ppm	<b>1</b>	3	---	---
Lead	ppm	<b>2</b>	5	---	---
Tin	ppm	<b>0</b>	<1	---	---
Aluminum	ppm	<b>2</b>	4	---	---
Chromium	ppm	<b>&lt;1</b>	<1	---	---
Molybdenum	ppm	<b>7</b>	33	---	---
Nickel	ppm	<b>0</b>	<1	---	---
Titanium	ppm	<b>0</b>	0	---	---
Silver	ppm	<b>0</b>	0	---	---
Manganese	ppm	<b>0</b>	<1	---	---
Vanadium	ppm	<b>&lt;1</b>	<1	---	---

### ADDITIVES

Calcium	ppm	<b>1865</b>	1519	---	---
Magnesium	ppm	<b>211</b>	884	---	---
Zinc	ppm	<b>1209</b>	1358	---	---
Phosphorus	ppm	<b>1011</b>	1034	---	---
Barium	ppm	<b>0</b>	0	---	---
Boron	ppm	<b>149</b>	40	---	---

**Depot:** VP610438  
**Unique No:** 10843053  
**Signed:** Angela Borella  
**Report Date:** 23 Jan 2024

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## GRAPHS

