

# OIL ANALYSIS REPORT

# VOLVO PENTA

## JOHN CUSHMAN VOLVO PENTA 2004003063 - STARBOARD DIESEL ENGINE

Sample No: VPA036697

Oil Type: SHELL ROTELLA T 15W40

### SAMPLE INFORMATION

Sample Number	VPA036697	---	---	---
Sample Date	06 Mar 2024	---	---	---
Machine Hours	442	---	---	---
Oil Hours	442	---	---	---
Oil Changed	Not Changd	---	---	---
Sample Status	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	█ 14.4	---	---	---
Base Number (BN)	mg KOH/g	█ 8.8	---	---	---
Oxidation (PA)	%	68	---	---	---

### 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.

### CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	█ 0.1	---	---	---
Nitration (PA)	%	52	---	---	---
Sulfation (PA)	%	57	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	< 1.0	---	---	---
Silicon	ppm	█ 6	---	---	---
Sodium	ppm	█ 1	---	---	---
Potassium	ppm	█ 7	---	---	---

### WEAR METALS

Iron	ppm	█ 17	---	---	---
Copper	ppm	█ 3	---	---	---
Lead	ppm	█ 1	---	---	---
Tin	ppm	█ < 1	---	---	---
Aluminum	ppm	█ 3	---	---	---
Chromium	ppm	█ < 1	---	---	---
Molybdenum	ppm	█ 13	---	---	---
Nickel	ppm	█ 1	---	---	---
Titanium	ppm	█ < 1	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ 0	---	---	---
Vanadium	ppm	0	---	---	---

### ADDITIVES

Calcium	ppm	█ 1935	---	---	---
Magnesium	ppm	201	---	---	---
Zinc	ppm	█ 1166	---	---	---
Phosphorus	ppm	█ 1051	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 172	---	---	---

Depot: VP610438

Unique No: 10916082

Signed: Don Baldrige

Report Date: 11 Mar 2024

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## GRAPHS

