

# OIL ANALYSIS REPORT

# VOLVO PENTA

## MIKE VELYS VOLVO PENTA 7008489413 - PORT DIESEL ENGINE

Sample No: VPA043908

Oil Type: SHELL ROTELLA T 15W40

### SAMPLE INFORMATION

Sample Number	VPA043908	VPA039605	---	---
Sample Date	29 Jun 2023	02 Nov 2021	---	---
Machine Hours	255	177	---	---
Oil Hours	255	177	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	NORMAL	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	█ 14.1	---	---
Base Number (BN)	mg KOH/g	█ 8.4	---	---	---
Oxidation (PA)	%	65	59	---	---

### CONTAMINATION

Soot %	%	█ 0.5	█ 0.5	---	---
Nitration (PA)	%	56	53	---	---
Sulfation (PA)	%	57	54	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	█ 12	█ 16	---	---
Sodium	ppm	█ <1	█ 2	---	---
Potassium	ppm	█ 8	█ <1	---	---

### 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 suitable for further service.

### WEAR METALS

Iron	ppm	█ 12	█ 20	---	---
Copper	ppm	█ 37	█ 44	---	---
Lead	ppm	█ 0	█ <1	---	---
Tin	ppm	█ <1	█ <1	---	---
Aluminum	ppm	█ 1	█ 2	---	---
Chromium	ppm	█ <1	█ 1	---	---
Molybdenum	ppm	█ 7	█ 54	---	---
Nickel	ppm	█ 1	█ 1	---	---
Titanium	ppm	█ <1	█ <1	---	---
Silver	ppm	█ <1	█ <1	---	---
Manganese	ppm	█ <1	█ <1	---	---
Vanadium	ppm	0	0	---	---

### ADDITIVES

Calcium	ppm	█ 2187	█ 2043	---	---
Magnesium	ppm	59	█ 409	---	---
Zinc	ppm	█ 1151	█ 1232	---	---
Phosphorus	ppm	█ 996	█ 1081	---	---
Barium	ppm	█ 0	█ 0	---	---
Boron	ppm	█ 180	█ 86	---	---

Depot: VP610438  
Unique No: 10561112  
Signed: Don Baldrige  
Report Date: 18 Jul 2023

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## GRAPHS

