

# OIL ANALYSIS REPORT

**VOLVO  
PENTA**

## MIKE VELYS ONAN C190527131 - GENSET

Sample No: VPA036735

Oil Type: SHELL ROTELLA T 15W40

### SAMPLE INFORMATION

Sample Number	VPA036735	VPA043911	VPA039604	---
Sample Date	21 Nov 2023	29 Jun 2023	02 Nov 2021	---
Machine Hours	364	299	207	---
Oil Hours	364	299	207	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	NORMAL	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	█ 13.8	█ 13.8	█ 13.8	---
Base Number (BN)	mg KOH/g	█ 9.0	█ 8.6	---	---
Oxidation (PA)	%	66	68	65	---

### CONTAMINATION

Water	%	NEG	NEG	NEG	---
Soot %	%	█ 0.1	█ 0.1	█ 0.1	---
Nitration (PA)	%	54	55	53	---
Sulfation (PA)	%	53	56	54	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	<1.0	---
Silicon	ppm	█ 4	█ 6	█ 8	---
Sodium	ppm	█ 2	█ <1	█ 3	---
Potassium	ppm	█ <1	█ 7	█ <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 acceptable for the time in service.

### WEAR METALS

Iron	ppm	█ 1	█ 4	█ 4	---
Copper	ppm	█ 0	█ 2	█ 4	---
Lead	ppm	█ 0	█ 0	█ <1	---
Tin	ppm	█ 0	█ <1	█ <1	---
Aluminum	ppm	█ 1	█ 2	█ 2	---
Chromium	ppm	█ 0	█ <1	█ <1	---
Molybdenum	ppm	█ 35	█ 15	█ 52	---
Nickel	ppm	█ 0	█ <1	█ <1	---
Titanium	ppm	0	<1	<1	---
Silver	ppm	█ 0	█ 0	<1	---
Manganese	ppm	█ 0	█ <1	█ <1	---
Vanadium	ppm	0	0	0	---

### ADDITIVES

Calcium	ppm	█ 1727	█ 2073	█ 1844	---
Magnesium	ppm	█ 415	117	█ 432	---
Zinc	ppm	█ 1322	█ 1135	█ 1172	---
Phosphorus	ppm	█ 1055	█ 985	█ 1025	---
Barium	ppm	█ 0	█ 0	█ 0	---
Boron	ppm	█ 74	█ 174	█ 102	---

Depot: VP610438

Unique No: 10767931

Signed: Don Baldrige

Report Date: 05 Dec 2023

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## GRAPHS

