

# OIL ANALYSIS REPORT

# VOLVO PENTA

## THOMAS ROBBINS VOLVO PENTA A1106103 - DIESEL ENGINE

Sample No: VPA055878

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

### SAMPLE INFORMATION

Sample Number	VPA055878	---	---	---
Sample Date	25 Oct 2023	---	---	---
Machine Hours	160	---	---	---
Oil Hours	30	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	NORMAL	---	---	---

#### McDonnell Marine Service

63 Old Windsor Rd.

BLOOMFIELD, CT

US 06002-1404

Contact: Brian McDonnell

brmcdonnell@comcast.net

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### OIL CONDITION

Visc @ 100°C	cSt	█ 13.9	---	---	---
Base Number (BN)	mg KOH/g	█ 9.1	---	---	---
Oxidation (PA)	%	63	---	---	---

### 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.

### CONTAMINATION

Soot %	%	█ 0.3	---	---	---
Nitration (PA)	%	48	---	---	---
Sulfation (PA)	%	56	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	< 1.0	---	---	---
Silicon	ppm	█ 6	---	---	---
Sodium	ppm	█ 3	---	---	---
Potassium	ppm	█ 8	---	---	---

### WEAR METALS

Iron	ppm	█ 12	---	---	---
Copper	ppm	█ 8	---	---	---
Lead	ppm	█ 4	---	---	---
Tin	ppm	█ < 1	---	---	---
Aluminum	ppm	█ 6	---	---	---
Chromium	ppm	█ < 1	---	---	---
Molybdenum	ppm	█ 14	---	---	---
Nickel	ppm	█ 1	---	---	---
Titanium	ppm	█ < 1	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ < 1	---	---	---
Vanadium	ppm	0	---	---	---

### ADDITIVES

Calcium	ppm	█ 1979	---	---	---
Magnesium	ppm	█ 193	---	---	---
Zinc	ppm	█ 1164	---	---	---
Phosphorus	ppm	█ 1054	---	---	---
Barium	ppm	█ 19	---	---	---
Boron	ppm	█ 170	---	---	---

Depot: VP153357

Unique No: 10716170

Signed: Sean Felton

Report Date: 01 Nov 2023

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## GRAPHS

