

# OIL ANALYSIS REPORT



## R16874 VOLVO PENTA A179692 - STARBOARD DIESEL ENGINE

**Sample No:** VPA055546  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3

### SAMPLE INFORMATION

Sample Number	VPA055546	---	---	---
Sample Date	05 Feb 2024	---	---	---
Machine Hours	1537	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Not Changd	---	---	---
Sample Status	NORMAL	---	---	---

**Western Branch Diesel, Inc. - VP527273**  
 3504 SHIPWRIGHT ST  
 PORTSMOUTH, VA  
 US 23703  
 Contact: GEORGE ROGIC  
 grogic@wbdiesel.com  
 T:  
 F:

### OIL CONDITION

Visc @ 100°C	cSt	█ 13.7	---	---	---
Base Number (BN)	mg KOH/g	█ 9.9	---	---	---
Oxidation (PA)	%	55	---	---	---

### CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	█ 0	---	---	---
Nitration (PA)	%	40	---	---	---
Sulfation (PA)	%	51	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	< 1.0	---	---	---
Silicon	ppm	█ 4	---	---	---
Sodium	ppm	█ < 1	---	---	---
Potassium	ppm	█ 2	---	---	---

### 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	█ 7	---	---	---
Copper	ppm	█ < 1	---	---	---
Lead	ppm	█ < 1	---	---	---
Tin	ppm	█ 0	---	---	---
Aluminum	ppm	█ 1	---	---	---
Chromium	ppm	█ 0	---	---	---
Molybdenum	ppm	█ 60	---	---	---
Nickel	ppm	█ < 1	---	---	---
Titanium	ppm	█ 0	---	---	---
Silver	ppm	█ < 1	---	---	---
Manganese	ppm	█ < 1	---	---	---
Vanadium	ppm	0	---	---	---

### ADDITIVES

Calcium	ppm	█ 1033	---	---	---
Magnesium	ppm	█ 1003	---	---	---
Zinc	ppm	█ 1359	---	---	---
Phosphorus	ppm	█ 1121	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 5	---	---	---

**Depot:** VP155396  
**Unique No:** 10863240  
**Signed:** Doug Bogart  
**Report Date:** 09 Feb 2024

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# VOLVO PENTA

## GRAPHS

