

# OIL ANALYSIS REPORT

# VOLVO PENTA

## SIX VOLVO PENTA A1157961 - STARBOARD DIESEL ENGINE

Sample No: VPA060971

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

### SAMPLE INFORMATION

Sample Number	VPA060971	---	---	---
Sample Date	10 Jan 2024	---	---	---
Machine Hours	57	---	---	---
Oil Hours	0	---	---	---
Oil Changed	N/A	---	---	---
Sample Status	NORMAL	---	---	---

### W J Clark Inc

4517 Dunning Road  
NORFOLK, VA  
US 23518  
Contact: WALTER CLARK  
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F:

### OIL CONDITION

Visc @ 100°C	cSt	█ 13.2	---	---	---
Base Number (BN)	mg KOH/g	█ 9.7	---	---	---
Oxidation (PA)	%	57	---	---	---

### 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 %	%	█ 0.2	---	---	---
Nitration (PA)	%	43	---	---	---
Sulfation (PA)	%	52	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	< 1.0	---	---	---
Silicon	ppm	█ 18	---	---	---
Sodium	ppm	█ 3	---	---	---
Potassium	ppm	█ 2	---	---	---

### WEAR METALS

Iron	ppm	█ 11	---	---	---
Copper	ppm	█ 13	---	---	---
Lead	ppm	█ 5	---	---	---
Tin	ppm	█ 2	---	---	---
Aluminum	ppm	█ 8	---	---	---
Chromium	ppm	█ <1	---	---	---
Molybdenum	ppm	█ 56	---	---	---
Nickel	ppm	█ <1	---	---	---
Titanium	ppm	█ 0	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ 1	---	---	---
Vanadium	ppm	0	---	---	---

### ADDITIVES

Calcium	ppm	█ 1110	---	---	---
Magnesium	ppm	█ 870	---	---	---
Zinc	ppm	█ 1257	---	---	---
Phosphorus	ppm	█ 1076	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 11	---	---	---

Depot: VP151520  
Unique No: 10834653  
Signed: Don Baldrige  
Report Date: 19 Jan 2024

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## GRAPHS

