

# OIL ANALYSIS REPORT

# VOLVO PENTA

## BOB WADDELL SAM VOLVO PENTA 7011292839 - STARBOARD DIESEL ENGINE

Sample No: VPA060780

Oil Type: VOLVO PENTA SAE 15W40

### SAMPLE INFORMATION

Sample Number	VPA060780	VPA047106	---	---
Sample Date	25 Sep 2023	06 Apr 2022	---	---
Machine Hours	854	323	---	---
Oil Hours	262	170	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	NORMAL	NORMAL	---	---

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### OIL CONDITION

Visc @ 100°C	cSt	█ 12.5	█ 12.7	---	---
Base Number (BN)	mg KOH/g	█ 9.7	█ 7.7	---	---
Oxidation (PA)	%	57	52	---	---

### CONTAMINATION

Soot %	%	█ 0.3	█ 0.1	---	---
Nitration (PA)	%	47	64	---	---
Sulfation (PA)	%	53	50	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	█ 8	█ 6	---	---
Sodium	ppm	█ 2	█ 1	---	---
Potassium	ppm	█ <1	█ 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 acceptable for the time in service.

### WEAR METALS

Iron	ppm	█ 5	█ 6	---	---
Copper	ppm	█ 16	█ 9	---	---
Lead	ppm	█ <1	█ <1	---	---
Tin	ppm	█ <1	█ <1	---	---
Aluminum	ppm	█ <1	█ 3	---	---
Chromium	ppm	█ 0	█ <1	---	---
Molybdenum	ppm	█ 60	█ 76	---	---
Nickel	ppm	█ 1	█ 0	---	---
Titanium	ppm	█ 0	█ 0	---	---
Silver	ppm	█ 0	█ 0	---	---
Manganese	ppm	█ 0	█ <1	---	---
Vanadium	ppm	0	0	---	---

### ADDITIVES

Calcium	ppm	█ 1127	█ 2135	---	---
Magnesium	ppm	1033	80	---	---
Zinc	ppm	█ 1318	█ 1218	---	---
Phosphorus	ppm	█ 1060	█ 1058	---	---
Barium	ppm	█ 0	█ 0	---	---
Boron	ppm	█ 1	█ 70	---	---

Depot: VP794951  
Unique No: 10669742  
Signed: Sean Felton  
Report Date: 29 Sep 2023

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## GRAPHS

