

# OIL ANALYSIS REPORT

**VOLVO  
PENTA**

## SEA18051443966 - STARBOARD DIESEL ENGINE

**Sample No:** VPA055890

**Oil Type:** SHELL ROTELLA T 15W40

### SAMPLE INFORMATION

Sample Number	VPA055890	---	---	---
Sample Date	24 Oct 2023	---	---	---
Machine Hours	461	---	---	---
Oil Hours	36	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	NORMAL	---	---	---

### OIL CONDITION

Visc @ 100°C	cSt	█ 14.3	---	---	---
Base Number (BN)	mg KOH/g	8.60	---	---	---
Oxidation (PA)	%	64	---	---	---

### CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	█ 0.2	---	---	---
Nitration (PA)	%	53	---	---	---
Sulfation (PA)	%	56	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	█ 4	---	---	---
Sodium	ppm	█ 0	---	---	---
Potassium	ppm	█ 7	---	---	---

### WEAR METALS

Iron	ppm	█ 7	---	---	---
Copper	ppm	█ 3	---	---	---
Lead	ppm	█ <1	---	---	---
Tin	ppm	█ 0	---	---	---
Aluminum	ppm	█ 1	---	---	---
Chromium	ppm	█ <1	---	---	---
Molybdenum	ppm	█ 13	---	---	---
Nickel	ppm	█ <1	---	---	---
Titanium	ppm	█ <1	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ 0	---	---	---
Vanadium	ppm	0	---	---	---

### ADDITIVES

Calcium	ppm	█ 1941	---	---	---
Magnesium	ppm	190	---	---	---
Zinc	ppm	█ 1150	---	---	---
Phosphorus	ppm	█ 950	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 171	---	---	---

**ART ZIEKY**  
15 CHAPLIN ST  
NEWINGTON, CT  
US 06111  
Contact: ART ZIEKY  
ziekman@cox.net  
T: (860)960-7681  
F:

### 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.

**Depot:** VPARTNEW  
**Unique No:** 10751243  
**Signed:** Sean Felton  
**Report Date:** 21 Nov 2023

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## GRAPHS

