

# OIL ANALYSIS REPORT

# VOLVO PENTA

## 7193946 - STARBOARD DIESEL ENGINE

Sample No: VPA039813

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

### SAMPLE INFORMATION

Sample Number	VPA039813	---	---	---
Sample Date	10 Jul 2023	---	---	---
Machine Hours	1129	---	---	---
Oil Hours	69	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	NORMAL	---	---	---

### OIL CONDITION

Visc @ 100°C	cSt	█ 13.2	---	---	---
Base Number (BN)	mg KOH/g	█ 9.6	---	---	---
Oxidation (PA)	%	62	---	---	---

### CONTAMINATION

Soot %	%	█ 0.3	---	---	---
Nitration (PA)	%	59	---	---	---
Sulfation (PA)	%	54	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	█ 4	---	---	---
Sodium	ppm	█ 2	---	---	---
Potassium	ppm	█ <1	---	---	---

### WEAR METALS

Iron	ppm	█ 15	---	---	---
Copper	ppm	█ 48	---	---	---
Lead	ppm	█ <1	---	---	---
Tin	ppm	█ 0	---	---	---
Aluminum	ppm	█ 2	---	---	---
Chromium	ppm	█ 0	---	---	---
Molybdenum	ppm	█ 58	---	---	---
Nickel	ppm	█ 1	---	---	---
Titanium	ppm	█ <1	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ <1	---	---	---
Vanadium	ppm	<1	---	---	---

### ADDITIVES

Calcium	ppm	█ 1076	---	---	---
Magnesium	ppm	█ 929	---	---	---
Zinc	ppm	█ 1172	---	---	---
Phosphorus	ppm	█ 953	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 6	---	---	---

**SIEBERT YACHT MANAGEMENT**  
2875 JUPITER PARK DR, SUITE 1700  
JUPITER, FL  
US 33458  
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T:  
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### 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.

Depot: VP1190184  
Unique No: 10586263  
Signed: Don Baldrige  
Report Date: 04 Aug 2023

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## GRAPHS

