

# OIL ANALYSIS REPORT

# VOLVO PENTA

## SUNDANCE YACHTS JG VOLVO PENTA 2204146582 - STARBOARD DIESEL ENGINE

**Sample No:** VPA060497  
**Oil Type:** DIESEL ENGINE OIL SAE 40

### SAMPLE INFORMATION

Sample Number	VPA060497	---	---	---
Sample Date	29 Feb 2024	---	---	---
Machine Hours	1300	---	---	---
Oil Hours	50	---	---	---
Oil Changed	N/A	---	---	---
Sample Status	ABNORMAL	---	---	---

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### OIL CONDITION

Visc @ 100°C	cSt	█ 14.7	---	---	---
Base Number (BN)	mg KOH/g	█ 9.0	---	---	---
Oxidation (PA)	%	72	---	---	---

### Diagnosis

No corrective action is recommended at this time. We recommend an early resample to monitor this condition. Cylinder, crank, or cam shaft wear is indicated. Exhaust valve wear is indicated. Elemental level of silicon (Si) above normal indicating ingress of seal material. 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 %	%	█ 1	---	---	---
Nitration (PA)	%	81	---	---	---
Sulfation (PA)	%	61	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	▲ 38	---	---	---
Sodium	ppm	█ 4	---	---	---
Potassium	ppm	█ 3	---	---	---

### WEAR METALS

Iron	ppm	▲ 94	---	---	---
Copper	ppm	█ 5	---	---	---
Lead	ppm	█ 6	---	---	---
Tin	ppm	█ 1	---	---	---
Aluminum	ppm	█ 5	---	---	---
Chromium	ppm	█ 3	---	---	---
Molybdenum	ppm	█ 54	---	---	---
Nickel	ppm	▲ 4	---	---	---
Titanium	ppm	█ <1	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ <1	---	---	---
Vanadium	ppm	<1	---	---	---

### ADDITIVES

Calcium	ppm	█ 1329	---	---	---
Magnesium	ppm	█ 636	---	---	---
Zinc	ppm	█ 1028	---	---	---
Phosphorus	ppm	█ 882	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 233	---	---	---

**Depot:** VP794951  
**Unique No:** 10910350  
**Signed:** Sean Felton  
**Report Date:** 05 Mar 2024

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## GRAPHS

