

# OIL ANALYSIS REPORT

# VOLVO PENTA

## ASTLE NICK/22987 VOLVO PENTA A1099684 - STARBOARD DIESEL ENGINE

Sample No: VPA048824

Oil Type: DIESEL ENGINE OIL SAE 40

### SAMPLE INFORMATION

Sample Number	VPA048824	VPA029907	---	---
Sample Date	06 Jul 2023	25 Mar 2022	---	---
Machine Hours	985	197	---	---
Oil Hours	0	197	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	NORMAL	ATTENTION	---	---

Seven Seas Yacht Services LLC

1804 CRAB ALLEY DR

CHESTER, MD

US 21619

Contact: Stephanie Wright

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### OIL CONDITION

Visc @ 100°C	cSt	█ 12.8	█ 12.8	---	---
Base Number (BN)	mg KOH/g	█ 10.4	█ 11.2	---	---
Oxidation (PA)	%	█ 57	91	---	---

### CONTAMINATION

Soot %	%	█ 0.1	█ 0.3	---	---
Nitration (PA)	%	█ 46	52	---	---
Sulfation (PA)	%	█ 53	70	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	█ 3	▲ 46	---	---
Sodium	ppm	█ 2	█ <1	---	---
Potassium	ppm	█ 4	█ 4	---	---

### 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.

### WEAR METALS

Iron	ppm	█ 9	█ 24	---	---
Copper	ppm	█ 3	█ 18	---	---
Lead	ppm	█ 1	█ 7	---	---
Tin	ppm	█ <1	█ 2	---	---
Aluminum	ppm	█ 2	█ 15	---	---
Chromium	ppm	█ 1	█ 3	---	---
Molybdenum	ppm	█ 57	█ 40	---	---
Nickel	ppm	█ 3	█ 0	---	---
Titanium	ppm	█ <1	█ <1	---	---
Silver	ppm	█ 0	█ <1	---	---
Manganese	ppm	█ <1	1	---	---
Vanadium	ppm	<1	0	---	---

### ADDITIVES

Calcium	ppm	█ 1081	█ 1680	---	---
Magnesium	ppm	█ 985	█ 524	---	---
Zinc	ppm	█ 1268	█ 1101	---	---
Phosphorus	ppm	█ 1021	█ 999	---	---
Barium	ppm	█ 0	█ 0	---	---
Boron	ppm	█ 0	█ 84	---	---

Depot: VP601781

Unique No: 10552927

Signed: Sean Felton

Report Date: 14 Jul 2023

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PENTA**

## GRAPHS

