

# OIL ANALYSIS REPORT

# VOLVO PENTA

## SILVER SEAS YACHTS BRANDON VOLVO PENTA 3940022445 - STARBOARD IPS

Sample No: VPA052338

Oil Type: VOLVO API GL-5 SAE 75W90

### SAMPLE INFORMATION

Sample Number	VPA052338	VPA051756	VPA034699	---
Sample Date	15 Apr 2024	29 Aug 2023	22 Jun 2020	---
Machine Hours	166	157	91	---
Oil Hours	0	157	10	---
Oil Changed	N/A	Changed	Not Changd	---
Sample Status	NORMAL	NORMAL	NORMAL	---

### Helmut's Marine Service

619 Canal Street  
SAN RAFAEL, CA  
US 94901-3545  
Contact: NADINE URUIOLI  
SERVICE@HELMUTSMARINE.COM

T: x:

F: x:

### OIL CONDITION

Visc @ 40°C	cSt	█ 106.9	█ 106	█ 105	---
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### CONTAMINATION

Water	%	NEG	NEG	NEG	---
Silicon	ppm	█ 10	█ 8	11	---
Sodium	ppm	█ 1	█ 1	█ <1	---
Potassium	ppm	█ 0	█ <1	█ <1	---

### 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 condition of the oil is acceptable for the time in service.

### WEAR METALS

PQ		█ 16	█ 15	█ 22	---
Iron	ppm	█ 6	█ 11	█ 13	---
Copper	ppm	█ <1	█ 2	3	---
Lead	ppm	█ 0	█ 0	<1	---
Tin	ppm	█ 0	█ 0	0	---
Aluminum	ppm	█ 0	█ <1	<1	---
Chromium	ppm	█ 0	█ <1	█ <1	---
Molybdenum	ppm	█ 0	█ 0	<1	---
Nickel	ppm	█ 0	█ <1	█ 0	---
Titanium	ppm	<1	0	0	---
Silver	ppm	█ 0	0	0	---
Manganese	ppm	█ <1	█ <1	1	---
Vanadium	ppm	<1	0	0	---

### ADDITIVES

Calcium	ppm	█ 2	█ 2	8	---
Magnesium	ppm	█ 1	█ 2	80	---
Zinc	ppm	█ 0	█ 4	6	---
Phosphorus	ppm	█ 1213	█ 1408	1316	---
Barium	ppm	█ 0	█ 2	0	---
Boron	ppm	█ 312	█ 360	320	---

Depot: VP152741

Unique No: 10991997

Signed: Doug Bogart

Report Date: 22 Apr 2024

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PENTA**

## GRAPHS

