

OIL ANALYSIS REPORT



SILVER SEAS YACHTS BRANDON VOLVO PENTA A884723 - PORT DIESEL ENGINE

Sample No: VPA052339
Oil Type: VOLVO PENTA SAE 15W40

SAMPLE INFORMATION

Sample Number	VPA052339	VPA051797	VPA037639	VPA034661
Sample Date	15 Apr 2024	29 Aug 2023	16 Aug 2021	22 Jun 2020
Machine Hours	166	157	112	91
Oil Hours	0	157	0	11
Oil Changed	N/A	Changed	Changed	Not Changd
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

Helmuts Marine Service
 619 Canal Street
 SAN RAFAEL, CA
 US 94901-3545
 Contact: NADINE URUIOLI
 SERVICE@HELMUTSMARINE.COM
 T: x:
 F: x:

OIL CONDITION

Visc @ 100°C	cSt	13.98	13.9	13.4	13.6
Base Number (BN)	mg KOH/g	9.0	8.6	---	---
Oxidation (PA)	%	48	46	58	56

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.1	0.1	0.1	0.1
Nitration (PA)	%	50	48	41	41
Sulfation (PA)	%	48	47	54	53
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	5	6	9
Sodium	ppm	1	2	3	2
Potassium	ppm	3	<1	0	0

Diagnosis

No corrective action is recommended at this time. 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	4	6	7	7
Copper	ppm	2	1	2	3
Lead	ppm	<1	<1	<1	0
Tin	ppm	0	<1	0	0
Aluminum	ppm	<1	2	<1	3
Chromium	ppm	0	0	0	<1
Molybdenum	ppm	15	12	59	66
Nickel	ppm	0	0	0	1
Titanium	ppm	<1	0	0	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	0	0	<1
Vanadium	ppm	<1	<1	0	0

ADDITIVES

Calcium	ppm	1271	1308	996	1248
Magnesium	ppm	806	775	921	1014
Zinc	ppm	920	864	1115	1227
Phosphorus	ppm	732	760	973	1090
Barium	ppm	0	0	0	0
Boron	ppm	71	89	3	7

Depot: VP152741
Unique No: 10992005
Signed: Doug Bogart
Report Date: 22 Apr 2024

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**VOLVO
PENTA**

GRAPHS

