

# OIL ANALYSIS REPORT



## SILVER SEAS YACHTS BRANDON VOLVO PENTA A884724 - STARBOARD DIESEL ENGINE

**Sample No:** VPA052340  
**Oil Type:** VOLVO PENTA SAE 15W40

### SAMPLE INFORMATION

Sample Number	<b>VPA052340</b>	VPA049540	VPA022879	VPA034698
Sample Date	<b>16 Apr 2024</b>	29 Aug 2023	16 Aug 2021	22 Jun 2020
Machine Hours	<b>166</b>	157	112	91
Oil Hours	<b>0</b>	157	0	11
Oil Changed	<b>N/A</b>	Changed	Changed	Not Changd
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

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### OIL CONDITION

Visc @ 100°C	cSt	<b>14.13</b>	14.0	13.5	13.5
Base Number (BN)	mg KOH/g	<b>8.8</b>	8.2	---	---
Oxidation (PA)	%	<b>48</b>	46	58	55

### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Soot %	%	<b>0.1</b>	0.1	0.1	0.1
Nitration (PA)	%	<b>50</b>	48	41	41
Sulfation (PA)	%	<b>48</b>	47	55	53
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>4</b>	5	6	9
Sodium	ppm	<b>2</b>	2	3	2
Potassium	ppm	<b>3</b>	<1	<1	3

### 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	<b>3</b>	5	6	9
Copper	ppm	<b>2</b>	<1	1	3
Lead	ppm	<b>0</b>	0	0	0
Tin	ppm	<b>&lt;1</b>	<1	0	0
Aluminum	ppm	<b>&lt;1</b>	1	0	4
Chromium	ppm	<b>0</b>	0	0	<1
Molybdenum	ppm	<b>15</b>	10	59	60
Nickel	ppm	<b>0</b>	0	0	<1
Titanium	ppm	<b>&lt;1</b>	0	0	<1
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>&lt;1</b>	0	0	<1
Vanadium	ppm	<b>&lt;1</b>	<1	0	0

### ADDITIVES

Calcium	ppm	<b>1301</b>	1308	986	1261
Magnesium	ppm	<b>824</b>	764	927	1006
Zinc	ppm	<b>944</b>	846	1108	1214
Phosphorus	ppm	<b>735</b>	741	973	1127
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>73</b>	93	3	8

**Depot:** VP152741  
**Unique No:** 10992003  
**Signed:** Doug Bogart  
**Report Date:** 22 Apr 2024

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## GRAPHS

