

OIL ANALYSIS REPORT



MICHAEL COHEN VOLVO PENTA A36 I 183 - PORT DIESEL ENGINE

Sample No: VPA047483
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3

SAMPLE INFORMATION

Sample Number	VPA047483	VPA055382	VPA055597	---
Sample Date	28 Nov 2023	03 Nov 2023	20 Sep 2023	---
Machine Hours	1108	1105	1095	---
Oil Hours	0	0	0	---
Oil Changed	N/A	Not Changd	Changed	---
Sample Status	ABNORMAL	ABNORMAL	NORMAL	---

COASTAL CAROLINA YACHT SALES
 145 LOCKWOOD BLVD
 CHARLESTON, SC
 US 29403
 Contact: STEVE VASAS
 steve@ccyachtsales.com
 T:
 F:

OIL CONDITION

Visc @ 100°C	cSt	14.04	13.8	14.7	---
Base Number (BN)	mg KOH/g	9.1	10.1	7.4	---
Oxidation (PA)	%	57	58	82	---

CONTAMINATION

Water	%	NEG	NEG	NEG	---
Soot %	%	0.1	0.1	0.2	---
Nitration (PA)	%	44	44	78	---
Sulfation (PA)	%	51	52	60	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	<1.0	---
Silicon	ppm	5	4	4	---
Sodium	ppm	9	9	<1	---
Potassium	ppm	2	3	9	---

Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. The aluminum level is abnormal. All other 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	15	13	13	---
Copper	ppm	5	4	9	---
Lead	ppm	<1	1	<1	---
Tin	ppm	0	0	<1	---
Aluminum	ppm	▲ 26	▲ 23	2	---
Chromium	ppm	3	3	<1	---
Molybdenum	ppm	48	50	<1	---
Nickel	ppm	<1	<1	2	---
Titanium	ppm	0	0	0	---
Silver	ppm	0	0	0	---
Manganese	ppm	0	<1	<1	---
Vanadium	ppm	<1	0	0	---

ADDITIVES

Calcium	ppm	1213	1231	2218	---
Magnesium	ppm	827	821	11	---
Zinc	ppm	1241	1137	1201	---
Phosphorus	ppm	1129	865	1016	---
Barium	ppm	0	0	0	---
Boron	ppm	32	26	198	---

Depot: VP568144
Unique No: 10769925
Signed: Jonathan Hester
Report Date: 11 Dec 2023

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**VOLVO
PENTA**

GRAPHS

