

OIL ANALYSIS REPORT

**VOLVO
PENTA**

RICHARD CANNY 506239 VOLVO PENTA A186554 - PORT DIESEL ENGINE

Sample No: VPA053683

Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3

SAMPLE INFORMATION

Sample Number	VPA053683	VPA042455	VPA037106	---
Sample Date	08 May 2024	15 Feb 2023	24 Feb 2022	---
Machine Hours	408	372	307	---
Oil Hours	0	0	0	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	ATTENTION	ABNORMAL	NORMAL	---

Jefferson Beach Yacht Sales Inc

24400 Jefferson Ave.

SAINT CLAIR SHORES, MI

US 48080

Contact: DENNIS BUTT

dbutt@jbys.com

T: (866)490-5297

F:

OIL CONDITION

Visc @ 100°C	cSt	█ 13.8	█ 14.3	█ 13.1	---
Base Number (BN)	mg KOH/g	█ 10.1	█ 10.0	█ 9.4	---
Oxidation (PA)	%	56	55	53	---

CONTAMINATION

Water	%	NEG	NEG	NEG	---
Soot %	%	█ 1	█ 1.6	█ 0.5	---
Nitration (PA)	%	55	68	52	---
Sulfation (PA)	%	55	63	47	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	<1.0	---
Silicon	ppm	█ 11	█ 16	█ 7	---
Sodium	ppm	█ 7	█ 5	█ 2	---
Potassium	ppm	█ 4	█ 6	█ 0	---

WEAR METALS

Iron	ppm	● 247	▲ 301	█ 38	---
Copper	ppm	█ 29	█ 34	█ 7	---
Lead	ppm	█ 1	█ 3	█ 2	---
Tin	ppm	█ <1	█ 2	█ 2	---
Aluminum	ppm	● 42	█ 41	█ 7	---
Chromium	ppm	● 19	▲ 20	█ 3	---
Molybdenum	ppm	█ 66	█ 56	█ 57	---
Nickel	ppm	█ 4	▲ 6	█ <1	---
Titanium	ppm	█ 0	█ <1	█ <1	---
Silver	ppm	█ 0	█ 0	█ 0	---
Manganese	ppm	█ 2	█ 3	█ <1	---
Vanadium	ppm	0	0	0	---

ADDITIVES

Calcium	ppm	█ 1223	█ 1010	█ 1048	---
Magnesium	ppm	█ 1031	█ 901	█ 915	---
Zinc	ppm	█ 1344	█ 1163	█ 1106	---
Phosphorus	ppm	█ 1134	█ 1092	█ 983	---
Barium	ppm	█ 0	█ 0	█ 0	---
Boron	ppm	█ 1	█ 45	█ 19	---

Diagnosis

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. We recommend an early resample to monitor this condition. Cylinder, crank, or cam shaft wear is indicated. Piston, ring and cylinder wear is indicated. 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 acceptable for the time in service.

Depot: VP297371

Unique No: 11021120

Signed: Don Baldrige

Report Date: 13 May 2024

OIL ANALYSIS REPORT



GRAPHS

