

OIL ANALYSIS REPORT

**VOLVO
PENTA**

JOHN MORRIS BATES VOLVO PENTA 2006016992 - STARBOARD DIESEL ENGINE

Sample No: VPA045835

Oil Type: VOLVO

SAMPLE INFORMATION

Sample Number	VPA045835	---	---	---
Sample Date	30 Aug 2023	---	---	---
Machine Hours	302	---	---	---
Oil Hours	25	---	---	---
Oil Changed	Not Changd	---	---	---
Sample Status	NORMAL	---	---	---

Outstanding Marine

PO Box 274
GALENA, MD
US 21635
Contact: Ronda Bolinger
rlwb@verizon.net
T:
F:

OIL CONDITION

Visc @ 100°C	cSt	█ 13.22	---	---	---
Oxidation (PA)	%	59	---	---	---

CONTAMINATION

Soot %	%	█ 0.1	---	---	---
Nitration (PA)	%	47	---	---	---
Sulfation (PA)	%	57	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	█ 6	---	---	---
Sodium	ppm	█ <1	---	---	---
Potassium	ppm	█ 1	---	---	---

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

WEAR METALS

Iron	ppm	█ 13	---	---	---
Copper	ppm	█ <1	---	---	---
Lead	ppm	█ 0	---	---	---
Tin	ppm	█ <1	---	---	---
Aluminum	ppm	█ 3	---	---	---
Chromium	ppm	█ <1	---	---	---
Molybdenum	ppm	█ 94	---	---	---
Nickel	ppm	█ <1	---	---	---
Titanium	ppm	█ <1	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	<1	---	---	---
Vanadium	ppm	0	---	---	---

ADDITIVES

Calcium	ppm	█ 1418	---	---	---
Magnesium	ppm	█ 557	---	---	---
Zinc	ppm	█ 779	---	---	---
Phosphorus	ppm	█ 655	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 310	---	---	---

Depot: VP153685
Unique No: 10630618
Signed: Doug Bogart
Report Date: 31 Aug 2023

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GRAPHS

