

OIL ANALYSIS REPORT

VOLVO PENTA

ANDREW PRUSSACK F VOLVO PENTA 7011349520 - STARBOARD DIESEL ENGINE

Sample No: VPA033623

Oil Type: VOLVO PENTA VDS 4.5

SAMPLE INFORMATION

Sample Number	VPA033623	---	---	---
Sample Date	12 Jul 2023	---	---	---
Machine Hours	495	---	---	---
Oil Hours	41	---	---	---
Oil Changed	Not Changd	---	---	---
Sample Status	NORMAL	---	---	---

TOTAL MARINE OF MARYLAND INC

106 WELLS COVE ROAD SUITE 2
GRASONVILLE, MD
US 21638

Contact: JAMIE FLAHERTY
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F:

OIL CONDITION

Visc @ 100°C	cSt	█ 13.7	---	---	---
Base Number (BN)	mg KOH/g	█ 8.9	---	---	---
Oxidation (PA)	%	65	---	---	---

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 acceptable for the time in service.

CONTAMINATION

Soot %	%	█ 0.1	---	---	---
Nitration (PA)	%	54	---	---	---
Sulfation (PA)	%	57	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	█ 5	---	---	---
Sodium	ppm	█ 2	---	---	---
Potassium	ppm	█ 9	---	---	---

WEAR METALS

Iron	ppm	█ 7	---	---	---
Copper	ppm	█ 5	---	---	---
Lead	ppm	█ <1	---	---	---
Tin	ppm	█ <1	---	---	---
Aluminum	ppm	█ 2	---	---	---
Chromium	ppm	█ 0	---	---	---
Molybdenum	ppm	█ 17	---	---	---
Nickel	ppm	█ 0	---	---	---
Titanium	ppm	█ <1	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	<1	---	---	---
Vanadium	ppm	<1	---	---	---

ADDITIVES

Calcium	ppm	█ 1939	---	---	---
Magnesium	ppm	█ 251	---	---	---
Zinc	ppm	█ 1088	---	---	---
Phosphorus	ppm	█ 903	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 139	---	---	---

Depot: VP1130693

Unique No: 10552923

Signed: Sean Felton

Report Date: 14 Jul 2023

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GRAPHS

