

OIL ANALYSIS REPORT

VOLVO PENTA

FINN H15314 VOLVO PENTA FINN - VPA036437 (S/N NOT GIVEN) - STARBOARD DIESEL ENGINE

Sample No: VPA036437

Oil Type: SHELL ROTELLA T 15W40

SAMPLE INFORMATION

Sample Number	VPA036437	---	---	---
Sample Date	17 Oct 2023	---	---	---
Machine Hours	209	---	---	---
Oil Hours	70	---	---	---
Oil Changed	Not Changd	---	---	---
Sample Status	NORMAL	---	---	---

Walstrom Marine - 767948

501 Bay Street
HARBOR SPRINGS, MI
US 49740

Contact: MARK LEWIS
mlewis@walstrom.com

T:
F:

OIL CONDITION

Visc @ 100°C	cSt	█ 14.8	---	---	---
Base Number (BN)	mg KOH/g	█ 8.8	---	---	---
Oxidation (PA)	%	65	---	---	---

Diagnosis

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.

CONTAMINATION

Soot %	%	█ 0.7	---	---	---
Nitration (PA)	%	58	---	---	---
Sulfation (PA)	%	59	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	█ 13	---	---	---
Sodium	ppm	█ 2	---	---	---
Potassium	ppm	█ 7	---	---	---

WEAR METALS

Iron	ppm	█ 14	---	---	---
Copper	ppm	█ 23	---	---	---
Lead	ppm	█ <1	---	---	---
Tin	ppm	█ 1	---	---	---
Aluminum	ppm	█ 2	---	---	---
Chromium	ppm	█ <1	---	---	---
Molybdenum	ppm	█ 14	---	---	---
Nickel	ppm	█ 1	---	---	---
Titanium	ppm	█ 0	---	---	---
Silver	ppm	█ <1	---	---	---
Manganese	ppm	█ <1	---	---	---
Vanadium	ppm	<1	---	---	---

ADDITIVES

Calcium	ppm	█ 2264	---	---	---
Magnesium	ppm	89	---	---	---
Zinc	ppm	█ 1312	---	---	---
Phosphorus	ppm	█ 1044	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 170	---	---	---

Depot: VP154879

Unique No: 10708785

Signed: Don Baldrige

Report Date: 25 Oct 2023

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GRAPHS

