

# OIL ANALYSIS REPORT

# VOLVO PENTA

## STAHL BILL H. VOLVO PENTA 4012173218 - STARBOARD GASOLINE ENGINE

Sample No: VPA059644

Oil Type: VOLVO VDS-4.5 Premium Motor Oil 15W40

### SAMPLE INFORMATION

Sample Number	VPA059644	---	---	---
Sample Date	02 Jan 2024	---	---	---
Machine Hours	705	---	---	---
Oil Hours	50	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	NORMAL	---	---	---

#### McDonnell Marine Service

63 Old Windsor Rd.

BLOOMFIELD, CT

US 06002-1404

Contact: Brian McDonnell

brmcdonnell@comcast.net

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### OIL CONDITION

Visc @ 100°C	cSt	█ 15.41	---	---	---
Base Number (BN)	mg KOH/g	█ 6.8	---	---	---
Oxidation (PA)	%	8	---	---	---

### 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

Water	%	NEG	---	---	---
Soot %	%	█ 0	---	---	---
Nitration (PA)	%	5	---	---	---
Sulfation (PA)	%	8	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	█ 12	---	---	---
Sodium	ppm	█ 15	---	---	---
Potassium	ppm	█ 3	---	---	---

### WEAR METALS

Iron	ppm	█ 27	---	---	---
Copper	ppm	█ 18	---	---	---
Lead	ppm	█ 1	---	---	---
Tin	ppm	█ <1	---	---	---
Aluminum	ppm	█ 13	---	---	---
Chromium	ppm	█ <1	---	---	---
Molybdenum	ppm	█ 40	---	---	---
Nickel	ppm	█ <1	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ 1	---	---	---
Vanadium	ppm	0	---	---	---

### ADDITIVES

Calcium	ppm	█ 1563	---	---	---
Magnesium	ppm	█ 18	---	---	---
Zinc	ppm	█ 729	---	---	---
Phosphorus	ppm	█ 665	---	---	---
Barium	ppm	█ 8	---	---	---
Boron	ppm	█ 0	---	---	---

Depot: VP153357

Unique No: 10819338

Signed: Jonathan Hester

Report Date: 11 Jan 2024

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## GRAPHS

