

# OIL ANALYSIS REPORT

**VOLVO  
PENTA**

## SMITH MERCURY 2B791722 - OUTBOARD LOWER UNIT - PORT GEARBOX

Sample No: VPA045589

Oil Type: MERCURY 90 HD

### SAMPLE INFORMATION

Sample Number	VPA045589	---	---	---
Sample Date	12 Dec 2023	---	---	---
Machine Hours	101	---	---	---
Oil Hours	20	---	---	---
Oil Changed	Not Changd	---	---	---
Sample Status	ATTENTION	---	---	---

**Walstrom Marine - 767948**

501 Bay Street  
HARBOR SPRINGS, MI  
US 49740

Contact: MARK LEWIS  
mlewis@walstrom.com

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F:

### OIL CONDITION

Visc @ 40°C	cSt	■ 157	---	---	---
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### CONTAMINATION

Water	%	NEG	---	---	---
Silicon	ppm	■ 3	---	---	---
Sodium	ppm	■ 0	---	---	---
Potassium	ppm	■ 0	---	---	---

### Diagnosis

No corrective action is recommended at this time. We recommend an early resample to monitor this condition. Gear wear is indicated. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

### WEAR METALS

PQ		■ 19	---	---	---
Iron	ppm	▲ 305	---	---	---
Copper	ppm	■ <1	---	---	---
Lead	ppm	■ 2	---	---	---
Tin	ppm	■ 0	---	---	---
Aluminium	ppm	■ 5	---	---	---
Chromium	ppm	■ 1	---	---	---
Molybdenum	ppm	■ 33	---	---	---
Nickel	ppm	■ 6	---	---	---
Titanium	ppm	■ 0	---	---	---
Silver	ppm	■ 0	---	---	---
Manganese	ppm	■ 1	---	---	---
Vanadium	ppm	■ <1	---	---	---

### ADDITIVES

Calcium	ppm	■ 0	---	---	---
Magnesium	ppm	■ 0	---	---	---
Zinc	ppm	■ 0	---	---	---
Phosphorus	ppm	■ 157	---	---	---
Barium	ppm	■ 0	---	---	---
Boron	ppm	■ 5	---	---	---

Depot: VP154879  
Unique No: 10796032  
Signed: Jonathan Hester  
Report Date: 22 Dec 2023

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## GRAPHS

