

# OIL ANALYSIS REPORT

**VOLVO  
PENTA**

**590-27 590-27 MERCURISER OM978190 - ZEUS - STARBOARD GEARBOX**

**Sample No:** VPA059558

**Oil Type:** MERCURY SYNTHETIC 75W90

## SAMPLE INFORMATION

Sample Number	VPA059558	---	---	---
Sample Date	03 Nov 2023	---	---	---
Machine Hours	0	---	---	---
Oil Hours	17	---	---	---
Oil Changed	N/A	---	---	---
Sample Status	ABNORMAL	---	---	---

### Outstanding Marine

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

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F:

## OIL CONDITION

Visc @ 40°C	cSt	█ 151.5	---	---	---
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## CONTAMINATION

Silicon	ppm	█ 4	---	---	---
Sodium	ppm	█ 3	---	---	---
Potassium	ppm	█ 7	---	---	---

## 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		█ 29	---	---	---
Iron	ppm	▲ 186	---	---	---
Copper	ppm	█ 46	---	---	---
Lead	ppm	█ 2	---	---	---
Tin	ppm	█ 0	---	---	---
Aluminum	ppm	█ 2	---	---	---
Chromium	ppm	█ 2	---	---	---
Molybdenum	ppm	33	---	---	---
Nickel	ppm	█ 4	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	4	---	---	---
Vanadium	ppm	0	---	---	---

## ADDITIVES

Calcium	ppm	10	---	---	---
Magnesium	ppm	2	---	---	---
Zinc	ppm	29	---	---	---
Phosphorus	ppm	340	---	---	---
Barium	ppm	6	---	---	---
Boron	ppm	<1	---	---	---

**Depot:** VP153685  
**Unique No:** 10729227  
**Signed:** Doug Bogart  
**Report Date:** 07 Nov 2023

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## GRAPHS

