

# OIL ANALYSIS REPORT

# VOLVO PENTA

## CONSTANCE MERCURY 3B226569 - LOWER UNIT OIL - STARBOARD GEARBOX

Sample No: VPA047988

Oil Type: MERCURY HIGH PERFORMANCE

### SAMPLE INFORMATION

Sample Number	VPA047988	---	---	---
Sample Date	24 Jun 2023	---	---	---
Machine Hours	467	---	---	---
Oil Hours	250	---	---	---
Oil Changed	N/A	---	---	---
Sample Status	SEVERE	---	---	---

### OIL CONDITION

Visc @ 40°C	cSt	■ 204	---	---	---
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### CONTAMINATION

Water	%	● 8.67	---	---	---
Silicon	ppm	■ 11	---	---	---
Sodium	ppm	■ 29	---	---	---
Potassium	ppm	■ 2	---	---	---

### WEAR METALS

PQ		● 407	---	---	---
Iron	ppm	● 638	---	---	---
Copper	ppm	■ 2	---	---	---
Lead	ppm	■ 0	---	---	---
Tin	ppm	■ 0	---	---	---
Aluminum	ppm	■ 20	---	---	---
Chromium	ppm	■ 3	---	---	---
Molybdenum	ppm	20	---	---	---
Nickel	ppm	■ 9	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	2	---	---	---
Vanadium	ppm	0	---	---	---

### ADDITIVES

Calcium	ppm	37	---	---	---
Magnesium	ppm	9	---	---	---
Zinc	ppm	39	---	---	---
Phosphorus	ppm	140	---	---	---
Barium	ppm	0	---	---	---
Boron	ppm	0	---	---	---

### MARINE EVOLUTIONS

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LORTON, VA  
US 22079  
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### Diagnosis

We advise that you check for the source of water entry. We recommend that you drain the oil from the component if this has not already been done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. High concentration of visible metal present. Gear wear is indicated. The very high ferrous density (PQ) index indicates that severe wear is occurring. There is a high concentration of water present in the oil. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Depot: vp446360  
Unique No: 10536737  
Signed: Jonathan Hester  
Report Date: 03 Jul 2023

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## GRAPHS

