

# OIL ANALYSIS REPORT

# VOLVO PENTA

## DAVID KIRK MERCURY OM975150 - ZEUS - PORT GEARBOX

Sample No: VPA055322

Oil Type: MERCURY 90W

### SAMPLE INFORMATION

Sample Number	VPA055322	VPA044691	---	---
Sample Date	19 Dec 2023	21 Nov 2022	---	---
Machine Hours	0	0	---	---
Oil Hours	0	0	---	---
Oil Changed	N/A	Changed	---	---
Sample Status	SEVERE	NORMAL	---	---

### OIL CONDITION

Visc @ 40°C	cSt	█ 207	█ 150	---	---
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### CONTAMINATION

Water	%	🔴 7.27	NEG	---	---
Silicon	ppm	█ 2	█ <1	---	---
Sodium	ppm	█ 0	█ <1	---	---
Potassium	ppm	█ 4	█ <1	---	---

### WEAR METALS

PQ		█ 29	█ 9	---	---
Iron	ppm	▲ 324	█ 193	---	---
Copper	ppm	█ 26	█ 8	---	---
Lead	ppm	█ 4	█ 1	---	---
Tin	ppm	█ 3	█ 0	---	---
Aluminum	ppm	█ 3	█ 0	---	---
Chromium	ppm	█ 3	█ 1	---	---
Molybdenum	ppm	56	█ 27	---	---
Nickel	ppm	█ 3	█ 2	---	---
Titanium	ppm	0	0	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	6	█ 2	---	---
Vanadium	ppm	<1	0	---	---

### ADDITIVES

Calcium	ppm	66	█ 30	---	---
Magnesium	ppm	0	█ 1	---	---
Zinc	ppm	22	█ 12	---	---
Phosphorus	ppm	364	█ 190	---	---
Barium	ppm	0	█ 0	---	---
Boron	ppm	10	█ <1	---	---

### BAY MARINE

3 E MADISON ST

WAUKEGAN, IL

US 60085

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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 recommend an early resample to monitor this condition. Gear wear is indicated. There is a high concentration of water present in the oil. The oil is no longer serviceable due to the presence of contaminants.

Depot: VP1174336

Unique No: 10796030

Signed: Jonathan Hester

Report Date: 22 Dec 2023

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## GRAPHS

