

# OIL ANALYSIS REPORT

**VOLVO  
PENTA**

## PARA A262775 - COOLANT

Sample No: VPA021226

Oil Type: VOLVO COOLANT VCS (YELLOW)

### SAMPLE INFORMATION

Sample Number	VPA021226	---	---	---
Sample Date	25 Jul 2023	---	---	---
Machine Hours	3121	---	---	---
Sample Status	ABNORMAL	---	---	---

### COOLANT CONDITION

Boron	ppm	■ 37	---	---	---
Phosphorus	ppm	■ 84	---	---	---
Sodium	ppm	■ 97	---	---	---
Potassium	ppm	■ 1993	---	---	---
Silicon	ppm	<1	---	---	---
pH	Scale 0-14	■ 8.38	---	---	---
Reserve Alkalinity	Scale 0-20	■ 3.2	---	---	---
Molybdenum	ppm	■ 7	---	---	---
Nitrites	ppm	■ 240	---	---	---
Percentage Glycol	%	▲ 32.5	---	---	---
Freezing Point	°C	▲ 1	---	---	---

### CONTAMINATION

Magnesium	ppm	■ 3	---	---	---
Calcium	ppm	■ 12	---	---	---
Coolant Appearance		■ Clear	---	---	---
Coolant Color		■ Yellow	---	---	---
Sand/Dirt	scalar	■ VLITE	---	---	---
Debris	scalar	■ NONE	---	---	---
Precipitate	scalar	■ NONE	---	---	---
Silt	scalar	■ NONE	---	---	---

### CORROSION

Iron	ppm	■ 2	---	---	---
Aluminum	ppm	■ 0	---	---	---
Copper	ppm	■ 4	---	---	---
Lead	ppm	■ 6	---	---	---
Tin	ppm	■ 2	---	---	---

#### TORONTO YACHT SERVICES

475 UNWIN AVE

TORONTO, ON

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#### Diagnosis

We recommend that you perform a partial drain and top off with straight antifreeze to increase level of glycol. Recommend that you ensure the same technology coolant is being used for make-up. Resample at the next service interval to monitor. All metal levels are normal indicating no corrosion in the cooling system. There is no indication of any contamination in the coolant. The glycol level is low which leads to an increased rate of liner pitting and may be inadequate for freeze protection. The specific gravity is lower than typical indicating the addition of a different type of coolant. The pH level of this fluid is within the acceptable limits. The reserve alkalinity of this fluid is acceptable.

Depot: TOR101TOR

Unique No: 5617570

Signed: Kevin Marson

Report Date: 28 Jul 2023

Contact/Location: Jon ? - TOR101TOR

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## GRAPHS

