

# OIL ANALYSIS REPORT



**SALISH SEA EXPEDITIONS 7769 VOLVO PENTA 1013792245 - COOLANT**

**Sample No:** VPA041258  
**Oil Type:** VOLVO COOLANT VCS (YELLOW)

## SAMPLE INFORMATION

Sample Number	VPA041258	---	---	---
Sample Date	25 Mar 2024	---	---	---
Machine Hours	4855	---	---	---
Sample Status	ABNORMAL	---	---	---

## COOLANT CONDITION

Boron	ppm	25	---	---	---
Phosphorus	ppm	4	---	---	---
Sodium	ppm	109	---	---	---
Potassium	ppm	3819	---	---	---
Silicon	ppm	6	---	---	---
pH	Scale 0-14	7.54	---	---	---
Reserve Alkalinity	Scale 0-20	6.0	---	---	---
Molybdenum	ppm	2	---	---	---
Nitrites	ppm	200	---	---	---
Percentage Glycol	%	27.8	---	---	---
Freezing Point	°C	-13	---	---	---

## CONTAMINATION

Magnesium	ppm	2	---	---	---
Calcium	ppm	5	---	---	---
Coolant Appearance		Clear	---	---	---
Coolant Color		Yellow	---	---	---
Sand/Dirt	scalar	NONE	---	---	---
Debris	scalar	NONE	---	---	---
Precipitate	scalar	NONE	---	---	---
Silt	scalar	NONE	---	---	---

## CORROSION

Iron	ppm	0	---	---	---
Aluminum	ppm	<1	---	---	---
Copper	ppm	0	---	---	---
Lead	ppm	0	---	---	---
Tin	ppm	0	---	---	---

### CULLEN DIESEL POWER

2454 HAYES RD  
 NANAIMO, BC  
 CA V9T 3M3

Contact: Joe Straughan  
 jds@cullendiesel.com  
 T: (250)758-5241  
 F:

We recommend that you perform a partial drain and top off with straight water to decrease abnormal level of overconcentrated antifreeze. 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 nitrites levels are too high which leads to additive drop-out and scale formation. The reserve alkalinity of this fluid is higher than acceptable indicating the coolant is over-concentrated. 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.

**Depot:** CULNAN  
**Unique No:** 5759630  
**Signed:** Kevin Marson  
**Report Date:** 04 Apr 2024

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# VOLVO PENTA

## GRAPHS

