

# OIL ANALYSIS REPORT

# VOLVO PENTA

180016793 CUMMINS J910428448 - COOLANT

Sample No: VPA056211

Oil Type: VOLVO COOLANT (GREEN)

## SAMPLE INFORMATION

Sample Number	VPA056211	---	---	---
Sample Date	07 Dec 2023	---	---	---
Machine Hours	512	---	---	---
Sample Status	ABNORMAL	---	---	---

## COOLANT CONDITION

Boron	ppm	216	---	---	---
Phosphorus	ppm	9	---	---	---
Sodium	ppm	1659	---	---	---
Potassium	ppm	655	---	---	---
Silicon	ppm	8	---	---	---
pH	Scale 0-14	8.78	---	---	---
Reserve Alkalinity	Scale 0-20	3.5	---	---	---
Molybdenum	ppm	10	---	---	---
Nitrites	ppm	440	---	---	---
Percentage Glycol	%	54.6	---	---	---
Freezing Point	°C	-45	---	---	---

## CONTAMINATION

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

## CORROSION

Iron	ppm	<1	---	---	---
Aluminum	ppm	0	---	---	---
Copper	ppm	2	---	---	---
Lead	ppm	6	---	---	---
Tin	ppm	<1	---	---	---

CULLEN DIESEL POWER - 695335

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SURREY, BC

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## Diagnosis

We recommend drain system, and refill with 50/50 antifreeze water mixture. We advise that you replenish the supplemental coolant additives (SCAs) and add per manufacturer's specifications. 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 component (unconfirmed). The coolant is cloudy indicating either an overconcentration of coolant additives, or a mixing of incompatible coolant technologies. 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: CULSUR

Unique No: 5696715

Signed: Kevin Marson

Report Date: 18 Dec 2023

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**VOLVO  
PENTA**

## GRAPHS

