

OIL ANALYSIS REPORT



180016794 DETROIT K6606695 - COOLANT

Sample No: VPA060344
Oil Type: VOLVO COOLANT (GREEN)

SAMPLE INFORMATION

Sample Number	VPA060344	---	---	---
Sample Date	08 Dec 2023	---	---	---
Machine Hours	512	---	---	---
Sample Status	ABNORMAL	---	---	---

COOLANT CONDITION

Boron	ppm	337	---	---	---
Phosphorus	ppm	7	---	---	---
Sodium	ppm	3682	---	---	---
Potassium	ppm	193	---	---	---
Silicon	ppm	7	---	---	---
pH	Scale 0-14	7.67	---	---	---
Reserve Alkalinity	Scale 0-20	4.0	---	---	---
Molybdenum	ppm	0	---	---	---
Nitrites	ppm	240	---	---	---
Percentage Glycol	%	65.6	---	---	---
Freezing Point	°C	-64	---	---	---

CONTAMINATION

Magnesium	ppm	1	---	---	---
Calcium	ppm	3	---	---	---
Coolant Appearance		Cloudy	---	---	---
Coolant Color		Yellow	---	---	---
Sand/Dirt	scalar	NONE	---	---	---
Debris	scalar	VLITE	---	---	---
Precipitate	scalar	NONE	---	---	---
Silt	scalar	NONE	---	---	---

CORROSION

Iron	ppm	13	---	---	---
Aluminum	ppm	9	---	---	---
Copper	ppm	0	---	---	---
Lead	ppm	10	---	---	---
Tin	ppm	7	---	---	---

CULLEN DIESEL POWER - 695335

9300 192 ST
SURREY, BC
CA V4N 3R8

Contact: Michelle Sayers
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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 glycol level is too high which leads to over-heating and additive drop-out. 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: 5696716
Signed: Kevin Marson
Report Date: 18 Dec 2023

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VOLVO PENTA

GRAPHS

