



FLASH TEST REPORT

Execution

State of charge Date Executed by 11 % 23/07/2025 15:21:47 Carla AB

Brand Model VIN Mileage

Vehicle

Volvo C40 Recharge - 78 kWh YV1XKEDVEN2005643 98,760 km

Analysis Result

AVILOO SCORE



High voltage battery usage and history Analysis of charging & driving behavior	66 / 70
High voltage battery performance Analysis of cell voltages and module temperatures.	28 / 30
High voltage battery control unit Check of signals and calculations of the battery management control unit.	~
Vehicle communication interface Check of communication via the diagnostic interface.	~

Belec

Dr. Marcus Berger CEO and Partner





DI Nikolaus Mayerhofer CTO and Founder

EXPLANATION OF THE BATTERY FLASH TEST

ANALYSIS METHOD

The analysis performed is a combined result of: The communication quality between the diagnostic hardware AVILOO Box and the on-board diagnostic interface of the vehicle. The live battery data and data that indicates the previous use of the high voltage battery, which is made available to the AVILOO Box by the battery management system during the measurement. The plausibility check and classification of the battery condition using the collected values and a comparison with the AVILOO Battery Cloud using Big Data algorithms.

FLASH TEST EXECUTION PROTOCOL

15:21:43	AVILOO Box connected.
v	FLASH Test started.

- 1 Vehicle detected.
- ~ Starting data acquisition.
- / Finished data acquisition.
- Analyzing data.
- Analysis completed.

DETAILED RESULTS OF PERFORMED CHECKS

Vehicle Information

Date Mileage VIN	23/07/2025 15:21:47 98,760 km YV1XKEDVEN2005643
Measurements High Voltage System	
Battery temperature	27.8 °C
Maximum cell temperature deviation	2.92 °C
Pack voltage	373.4 V
Maximum cell voltage deviation	7 mV
Peak current during check	-4.9 A
State of Health (SoH - read from car manufacturer)*	93.02 %

*The SoH shown here was not calculated by AVILOO but corresponds to the SoH read out from the battery management system and calculated by the manufacturer. AVILOO therefore does not guarantee the correctness of this SoH.



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