



FLASH TEST REPORT

26/03/2025 09:00:52

Execution

State of charge Date Executed by Vehicle

Brand Model VIN

Mileage

70 %

Carla AB

Volvo C40 Recharge - 82 kWh YV1XKERR4R2109001 19,866 km

Analysis Result

AVILOO SCORE



High voltage battery usage and history

Analysis of charging & driving behavior

69 / 70

High voltage battery performance

Analysis of cell voltages and module temperatures.

30 / 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.



Dr. Marcus Berger CEO and Partner DI Wolfgang Berger MBA CSO and Founder

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

09:00:48 AVILOO Box connected.

- FLASH Test started.
- Vehicle detected.
- Starting data acquisition.
- Finished data acquisition.
- Analyzing data.
- Analysis completed.

DETAILED RESULTS OF PERFORMED CHECKS

Vehicle Information

VIN YV1XKERR4R2109001 26/03/2025 09:00:52 Date Mileage 19,866 km

Measurements High Voltage System

Battery temperature 8.5 °C Maximum cell temperature deviation 0.9 °C Pack voltage 434.5 V Maximum cell voltage deviation 10.32 mV Peak current during check -16.53 A State of Health (SoH - read from car manufacturer)* 98.94 %

*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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