



FLASH TEST REPORT

Execution

State of charge **52 %**
Date 31/07/2025 09:23:51
Executed by Carla AB

Vehicle

Brand Volvo
Model XC40 Recharge - 78 kWh
VIN YV1XZEDVEM2518225
Mileage 101,197 km

Analysis Result

AVILOO SCORE

93
/ 100

High voltage battery usage and history
Analysis of charging & driving behavior

65 / 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.



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CEO and Partner

DI Wolfgang Berger MBA
CSO and Founder

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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

- 09:23:47
- 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

Date	31/07/2025 09:23:51
Mileage	101,197 km
VIN	YV1XZEDVEM2518225

Measurements High Voltage System

Battery temperature	20.9 °C
Maximum cell temperature deviation	1.95 °C
Pack voltage	399.2 V
Maximum cell voltage deviation	7 mV
Peak current during check	-7.2 A
State of Health (SoH - read from car manufacturer)*	91.71 %

*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.

