



FLASH TEST REPORT

Execution

State of charge **50 %**
Date 16/05/2025 12:05:10
Executed by Carla AB

Vehicle

Brand Volvo
Model XC40 Recharge - 82 kWh
VIN YV1XZERR8R2306474
Mileage 25,553 km

Analysis Result

AVILOO SCORE

95
/ 100

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

67 / 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.



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

- 12:05:06
- AVILOO Box connected.
- ✓
- FLASH Test started.
- ✓
- Starting data acquisition.
- ✓
- Vehicle detected.
- ✓
- Finished data acquisition.
- ✓
- Analyzing data.
- ✓
- Analysis completed.

DETAILED RESULTS OF PERFORMED CHECKS

Vehicle Information

Date	16/05/2025 12:05:10
Mileage	25,553 km
VIN	YV1XZERR8R2306474

Measurements High Voltage System

Battery temperature	13.5 °C
Maximum cell temperature deviation	1.37 °C
Pack voltage	410.3 V
Maximum cell voltage deviation	11 mV
Peak current during check	-5.1 A
State of Health (SoH - read from car manufacturer)*	94.14 %

fastcheck.certificate.explanationFooterText

