



# FLASH TEST REPORT

## Execution

State of charge 16.6 %  
Date 23/05/2025 14:34:52  
Executed by Carla AB

## Vehicle

Brand Volvo  
Model C40 Recharge - 78 kWh  
VIN YV1XKEDV0P2029809  
Mileage 54,279 km

## Analysis Result

# AVILOO SCORE

94  
/ 100

**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.



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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

- 14:34:48
- 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	23/05/2025 14:34:52
Mileage	54,279 km
VIN	YV1XKEDV0P2029809

### Measurements High Voltage System

Battery temperature	12.08 °C
Maximum cell temperature deviation	2.82 °C
Pack voltage	387.3 V
Maximum cell voltage deviation	18.88 mV
Peak current during check	-13.98 A
State of Health (SoH - read from car manufacturer)*	93.53 %

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