



# FLASH TEST REPORT

## Execution

State of charge **58 %**  
Date 15/05/2025 12:56:16  
Executed by Carla AB

## Vehicle

Brand Volvo  
Model C40 Recharge - 69 kWh  
VIN YV1XKEFV4P2039515  
Mileage 30,310 km

## Analysis Result

# AVILOO SCORE

**97**  
/ 100

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

**68** / 70

**High voltage battery performance**  
Analysis of cell voltages and module temperatures.

**29** / 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

12:56:12	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	15/05/2025 12:56:16
Mileage	30,310 km
VIN	YV1XKEFV4P2039515

### Measurements High Voltage System

Battery temperature	11.3 °C
Maximum cell temperature deviation	1.73 °C
Pack voltage	368.6 V
Maximum cell voltage deviation	17 mV
Peak current during check	-4.5 A
State of Health (SoH - read from car manufacturer)*	96.98 %

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