AVILOO
BATTERY DIAGNOSTICS

FLASH TEST REPORT

Execution

State of charge	6.2 %
Date	23/05/2025 13:09:38
Executed by	Carla AB

Vehicle

Brand	Volvo
Model	C40 Recharge - 69 kWh
VIN	YV1XKEFV7P2039797
Mileage	44,872 km

Analysis Result

AVILOO SCORE 96 / 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. — 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. — ✔

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DI Wolfgang Berger MBA
CSO and Founder

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CARA Approved Battery Health Check

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

13:09:34	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 13:09:38
Mileage	44,872 km
VIN	YV1XKEFV7P2039797

Measurements High Voltage System

Battery temperature	13.6 °C
Maximum cell temperature deviation	2.26 °C
Pack voltage	336.1 V
Maximum cell voltage deviation	18.08 mV
Peak current during check	-13.82 A
State of Health (SoH - read from car manufacturer)*	95.65 %

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AVILOO BATTERY DIAGNOSTICS

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