AVILOO
BATTERY DIAGNOSTICS

FLASH TEST REPORT

Execution

State of charge	77 %
Date	04/06/2025 15:06:17
Executed by	Carla AB

Vehicle

Brand	Volvo
Model	XC40 Recharge - 69 kWh
VIN	YV1XZEFVKN2755623
Mileage	82,030 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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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

15:06:14	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	04/06/2025 15:06:17
Mileage	82,030 km
VIN	YV1XZEFVKN2755623

Measurements High Voltage System

Battery temperature	19.9 °C
Maximum cell temperature deviation	1.3 °C
Pack voltage	389.2 V
Maximum cell voltage deviation	11.99 mV
Peak current during check	-5.1 A
State of Health (SoH - read from car manufacturer)*	95.88 %

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AVILOO BATTERY DIAGNOSTICS

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