



# FLASH TEST REPORT

## Execution

State of charge **60 %**  
Date 01/03/2024 12:48:01  
Executed by Carla AB

## Vehicle

Brand Volvo  
Model C40 Recharge - 69 kWh  
VIN YV1XKEFV4P2037103  
Mileage 21,720 km

## Analysis Result

# AVILOO SCORE

**99**  
/ 100

### High voltage battery usage and history

Analysis of charging & driving behavior

**69** / 70

### High voltage battery performance

Analysis of cell voltages and module temperatures.

**30** / 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

- 12:47:58 AVILOO Box connected.
- ✓ FLASH Test started.
- ✓ Vehicle detected.
- ✓ Starting data acquisition.
- ✓ Finished data acquisition.
- ✓ Analyzing data.
- ✓ Analysis completed.

## DETAILED RESULTS OF PERFORMED CHECKS

### Vehicle Information

VIN	YV1XKEFV4P2037103
Date	01/03/2024 12:48:01
Mileage	21,720 km

### Measurements High Voltage System

Battery temperature	10.2 °C
Maximum cell temperature deviation	2.64 °C
Pack voltage	370.9 V
Maximum cell voltage deviation	18.98 mV
Peak current during check	-15.3 A
State of Health (SoH - read from car manufacturer)*	98.24 %

\*The SoH shown here was not calculated by AVILOO but corresponds to the SoH read out from the battery management system and calculated by the manufacturer. AVILOO therefore does not guarantee the correctness of this SoH.

