



# FLASH TEST REPORT

## Execution

State of charge **100 %**  
Date 03/05/2023 12:53:36  
Executed by Carla AB

## Vehicle

Brand Volvo  
Model XC40 Recharge - 69 kWh  
VIN YV1XZEFV8P2938325  
Mileage 10,336 km

## Analysis Result

# AVILOO SCORE

**99**  
/ 100

### High voltage battery usage and history

Analysis of charging & driving behavior

**49** / 50

### 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.

**10** / 10

### Electrical low voltage system

Check of 12 V battery state and power supply.

**5** / 5


### Vehicle communication interface

Check of communication via the diagnostic interface.

**5** / 5

  
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Managing director

  
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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

```
12:53:33 AVILOO Box connected.
12:53:36 Flash Test started.
12:53:46 Vehicle detected.
12:53:50 Starting data acquisition.
12:55:51 Finished data acquisition.
12:56:02 Analyzing data.
12:56:06 Analysis completed.
```

## DETAILED RESULTS OF PERFORMED CHECKS

### Vehicle Information

VIN	YV1XZEFV8P2938325
Date	03/05/2023 12:53:36
Mileage	10,336 km

### Measurements High Voltage System

Battery temperature	15.4 °C
Maximum cell temperature deviation	2.45 °C
Pack voltage	406.6 V
Maximum cell voltage deviation	12.9 mV
Peak current during check	-13.7 A
State of Health (SoH - read from car manufacturer)*	99.12 %

### Measurements Low Voltage System

Power supply 12V system	14.43 V
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\*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.

