

# FLASH TEST REPORT

## Execution

State of charge **92 %**  
Date 02/08/2023 10:16:07  
Executed by Carla AB

## Vehicle

Brand Volvo  
Model XC40 Recharge - 69 kWh  
VIN YV1XZEFV0P2028877  
Mileage 9,204 km

## Analysis Result

# AVILOO SCORE

**100**  
/ 100

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

**50** / 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

  
DI Wolfgang Berger MBA  
Managing director

  
DI Nikolaus Mayerhofer  
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COO/CFO and Partner



# 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

```
10:16:04 AVILOO Box connected.
10:16:07 Flash Test started.
10:16:10 Vehicle detected.
10:16:12 Starting data acquisition.
10:18:12 Finished data acquisition.
10:18:26 Analyzing data.
10:18:28 Analysis completed.
```

## DETAILED RESULTS OF PERFORMED CHECKS

### Vehicle Information

VIN	YV1XZEFV0P2028877
Date	02/08/2023 10:16:07
Mileage	9,204 km

### Measurements High Voltage System

Battery temperature	18.5 °C
Maximum cell temperature deviation	1.81 °C
Pack voltage	402.6 V
Maximum cell voltage deviation	8 mV
Peak current during check	-2.7 A
State of Health (SoH - read from car manufacturer)*	99.23 %

### Measurements Low Voltage System

Power supply 12V system	14.68 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.

