AVILOO
BATTERY DIAGNOSTICS

FLASH TEST REPORT

Execution

State of charge	23 %
Date	25/07/2023 14:27:38
Executed by	Carla AB

Vehicle

Brand	Volvo
Model	XC40 Recharge - 69 kWh
VIN	YV1XZEFV0P2005874
Mileage	12,774 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

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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

14:27:35	AVILOO Box connected.
14:27:38	Flash Test started.
14:27:46	Vehicle detected.
14:27:49	Starting data acquisition.
14:29:49	Finished data acquisition.
14:30:01	Analyzing data.
14:30:03	Analysis completed.

DETAILED RESULTS OF PERFORMED CHECKS

Vehicle Information

VIN	YV1XZEFV0P2005874
Date	25/07/2023 14:27:38
Mileage	12,774 km

Measurements High Voltage System

Battery temperature	20.29 °C
Maximum cell temperature deviation	1.11 °C
Pack voltage	347.3 V
Maximum cell voltage deviation	4 mV
Peak current during check	-2.2 A
State of Health (SoH - read from car manufacturer)*	100.06 %

Measurements Low Voltage System

Power supply 12V system	13.66 V

*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.

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