INDEPENDENT

BATTERY CERTIFICATE

AVILOO
BATTERY DIAGNOSTICS

CERTIFICATE NUMBER: 83A4AFC6-7449-4706-9D80-3813B6743DE5

VEHICLE

BRAND: Volvo
MODEL: C40 Recharge - 69 kWh

MILEAGE: 45,311 km
VIN: LYVXKEFA2PL040643
DATE AND TIME:
06/11/2026, 14:26

EXECUTED BY: Carma

RESULTS

Independent
STATE OF HEALTH (SOH)

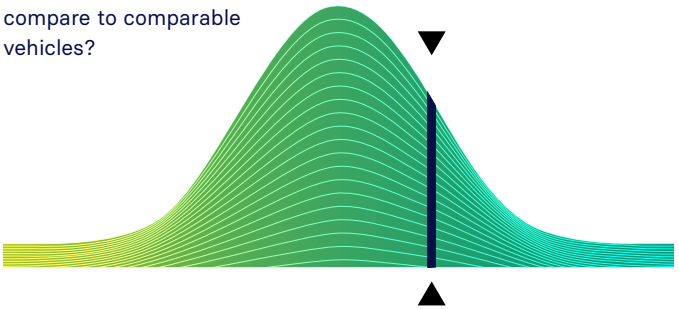
96.0 %

ENERGY 64kWh | 67kWh

WLTP RANGE 467km | 487km

RATING

BENCHMARKING
How does your vehicle compare to comparable vehicles?



below average | average | above average

CHECKS

- Battery Management System (BMS) ✓
- Battery Sensor ✓
- Battery Measurements ✓
- Battery Cell Voltages ✓
- Vehicle Communication ✓

SCAN FOR DETAILS

EVALUATION

EXCELLENT HEALTH - NO ABNORMALITIES DETECTED

Based on the detailed battery diagnostics performed with the AVILOO FLASH Test, we hereby certify that the drive battery of this vehicle is in excellent condition.

The drive battery is therefore officially AVILOO Certified.

Dr. Marcus Berger, CEO

CARA Approved Battery Health Check

AVILOO CERTIFIED
BATTERY IS TESTED AND AVILOO CERTIFIED

ENERGY

	Gross	Net (Nominal)	Usable
Current:	66.2kWh	64.3kWh	61.7kWh
New:	69.0kWh	67.0kWh	64.3kWh

RANGE

	WLTP	Typical	Individual
Current:	414-467km	325km	358km
New:	431-487km	338km	373km

EXECUTION PROTOCOL

AVILOO Box connected.	14:26:04
FLASH Test started.	✓
Vehicle detected.	✓
Data acquisition started.	✓
Data acquisition completed.	✓
Data analysis started.	✓
Data analysis completed.	✓

SENSORS

Voltage Sensor	✓
Current Sensor	✓
Temperature Sensors	✓
Cell Voltage Sensors	✓

BMS

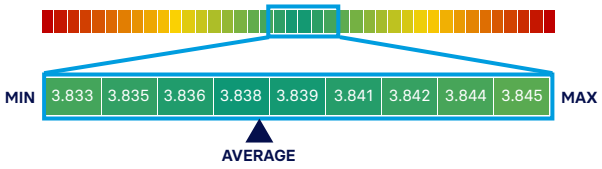
	Value	Status
BMS State of Charge (SoC)*:	57%	
SoC calculation accuracy:		✓
BMS State of Health (SoH)*:	97%	
SoH calculation accuracy:		✓

MEASUREMENTS

	Min	Max	Delta	Status
Battery Temperature	24.8°C	26.4°C	1.6°C	✓
Cell Voltage	3.833V	3.845V	12mV	✓
Pack Voltage	368.5V			
Average Current	-2.7A			

CELL VOLTAGES DIAGRAM

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1 - 20	3.836	3.837	3.834	3.840	3.840	3.839	3.844	3.836	3.833	3.836	3.838	3.841	3.839	3.842	3.842	3.833	3.837	3.835	3.839	3.839
21 - 40	3.838	3.845	3.839	3.839	3.842	3.839	3.836	3.839	3.841	3.834	3.833	3.838	3.839	3.836	3.842	3.840	3.836	3.836	3.838	3.838
41 - 60	3.842	3.836	3.839	3.839	3.840	3.838	3.839	3.837	3.834	3.836	3.839	3.840	3.839	3.837	3.842	3.836	3.836	3.836	3.839	3.841
61 - 80	3.838	3.840	3.836	3.839	3.839	3.839	3.842	3.842	3.834	3.836	3.836	3.838	3.838	3.834	3.835	3.842	3.839	3.836	3.842	3.837
81 - 96	3.843	3.836	3.838	3.836	3.836	3.836	3.837	3.839	3.839	3.838	3.837	3.839	3.843	3.836	3.837	3.838				



*The values shown here were read directly from the vehicle's battery management system (BMS) and are calculated and provided by the vehicle manufacturer. The State of Health (SoH) displayed corresponds to the value reported by the BMS and is CARA-certified.

DISCLAIMER: The test result includes the currently calculated state of health (SoH) of the drive battery. The determination is based on data provided by the vehicle. These are evaluated by AVILOO's algorithms using statistical and analytical models. Manipulation of the data in the control unit leads to an incorrect result. The indicated SoH has a technically induced fluctuation range (deviation) of no more than 3% in at least 95% of reference measurements. It should be noted that this tolerance applies to the SoH determination at the cell level and not to the SoH of the entire battery. This is because the state of charge of individual cells may vary, which can negatively affect the current SoH of the battery. However, this can be compensated by the Battery Management System (BMS) or during a calibration. The result reflects the condition of the battery at the time of the test. No conclusions can be drawn about the future state of health of the battery from this. Statements about mechanical damage or external influences are not part of this diagnosis.

AVILOO GmbH | IZ NÖ-Süd, Straße 16, Objekt 69/5 | 2355 Wiener Neudorf | Austria | business.help@aviloo.com

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