INDEPENDENT

BATTERY CERTIFICATE

AVILOO
BATTERY DIAGNOSTICS

CERTIFICATE NUMBER: 29829A81-CE4B-460D-A0B0-1782787291A7

VEHICLE

BRAND: Volvo
MODEL: XC40 Recharge - 78 kWh
MILEAGE: 9,324 km
VIN: YV1XZEDV2P2108894
DATE AND TIME: 26.08.2025, 15:10:19
EXECUTED BY: AURES Holdings

RESULTS

STATE OF HEALTH (SOH)

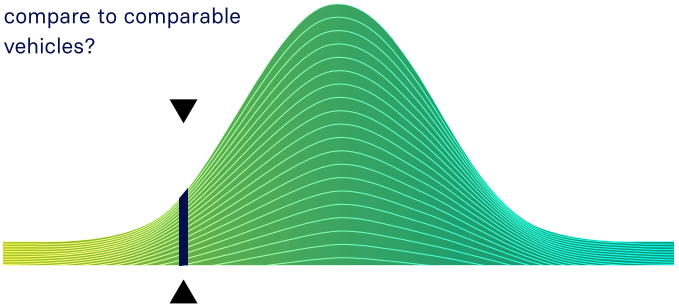
97.5 %

ENERGY 73kWh | 75kWh

WLTP RANGE 408km | 418km

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

GOOD 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 good 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:	76.0kWh	73.1kWh	70.2kWh
New:	78.0kWh	75.0kWh	72.0kWh

RANGE

	WLTP	Typical	Individual
Current:	390-408km	293km	298km
New:	400-418km	300km	306km

EXECUTION PROTOCOL

AVILOO Box connected. **15:10:16**

- FLASH Test started. ✓
- Vehicle detected. ✓
- Starting data acquisition. ✓
- Finished data acquisition. ✓

SENSORS

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

BMS

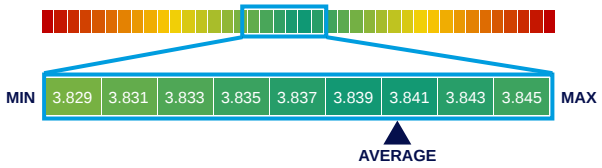
	Value	Status
BMS State of Charge (SoC)*:	57%	
SoC calculation accuracy:		✓
BMS State of Health (SoH)*:	97%	
SoH calculation accuracy:		✓

MEASUREMENTS

	Min	Max	Delta	Status
Battery Temperature	29.2°C	32.9°C	3.7°C	✓
Cell Voltage	3.829V	3.845V	16mV	✓
Pack Voltage	414.7V			
Average Current	-1.0A			

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	3.835	3.834	3.837	3.837	3.836	3.839	3.839	3.838	3.840	3.838	3.840	3.837	3.833	3.838	3.842	3.842	3.836	3.836	3.836	3.840
21 - 40	3.841	3.843	3.840	3.841	3.840	3.840	3.836	3.835	3.843	3.838	3.840	3.842	3.838	3.838	3.841	3.842	3.835	3.837	3.833	3.835
41 - 60	3.840	3.835	3.836	3.838	3.837	3.839	3.839	3.841	3.838	3.843	3.840	3.844	3.842	3.838	3.843	3.840	3.841	3.836	3.841	3.838
61 - 80	3.835	3.840	3.836	3.829	3.843	3.843	3.845	3.844	3.837	3.841	3.841	3.840	3.840	3.842	3.844	3.843	3.843	3.839	3.839	3.839
81 - 100	3.843	3.843	3.835	3.836	3.843	3.841	3.840	3.840	3.842	3.841	3.839	3.843	3.841	3.844	3.841	3.841	3.844	3.838	3.841	3.837
101 - 108	3.843	3.842	3.839	3.839	3.838	3.841	3.835	3.840												



*The values shown here were not calculated by AVILOO but correspond to the values read out from the battery management system (BMS) and were calculated by the manufacturer. AVILOO therefore assumes no liability for their accuracy.

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 AVILOOs 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 Managament 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.

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