

INDEPENDENT

Electric Vehicle Battery Certificate

Certificate issued by



Certificate creation time: 2026-10-01, 11:08

Certificate number: 20261001.111

Vehicle information

Registration number / VIN
XKZ21P / YV1XZERR2R2374608

Brand / Model
Volvo XC40

Odometer
68320 km

Battery type
NMC

Charging port type
CCS

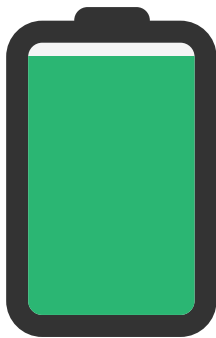
Test results

Date and time of test: 2026-10-01, 10:39

Test performed by:

kvd bil

State of health (SOH)



95%

Battery capacity

Estimated capacity

74.8 kWh

Factory new capacity

79.0 kWh

WLTP range

Estimated WLTP

504 km

Factory new WLTP

532 km

Diagnostics

	VALUE		MIN	MAX	DELTA
SOC	-	Battery temperature	-	-	-
Pack voltage	453.6V	Cell voltage	4.197V	4.203V	6mV

Cell voltages

1-24	4.197	4.198	4.201	4.198	4.198	4.198	4.200	4.198	4.198	4.198	4.202	4.202	4.199	4.202	4.197	4.202	4.198	4.198	4.197	4.198	4.200	4.200	4.200	4.202
25-48	4.202	4.199	4.202	4.199	4.202	4.200	4.200	4.200	4.197	4.201	4.201	4.197	4.200	4.201	4.201	4.198	4.197	4.197	4.199	4.201	4.201	4.197	4.199	
49-72	4.199	4.199	4.200	4.198	4.199	4.199	4.199	4.198	4.199	4.200	4.198	4.200	4.201	4.197	4.198	4.200	4.198	4.199	4.199	4.199	4.199	4.199	4.199	
73-96	4.199	4.201	4.200	4.199	4.199	4.198	4.198	4.197	4.200	4.199	4.200	4.202	4.198	4.198	4.201	4.199	4.200	4.201	4.199	4.198	4.199	4.199	4.201	4.203

Normal: Cell voltage deviation is within the expected range.

Method and control

Battery assessment is based on diagnostic data retrieved from the vehicle's OEM Battery Management System (BMS) and comparative reference data from similar vehicle models.

Attest

The test was executed according to the Optiledger SOH procedure with no known technical issues during data acquisition.

Disclaimer

Results represent an estimated assessment of battery condition at the time of testing and do not constitute a warranty or guarantee of battery capacity, performance, or remaining lifetime. The original WLTP range is determined and published by the vehicle manufacturer under standardized laboratory test conditions. The estimated WLTP presented in this report is calculated from diagnostic data and reference parameters and does not represent actual driving range. Real-world range may vary depending on driving conditions, temperature, load, and driving behavior. Full methodology, limitations and liability disclaimer available at: https://optiledger.se/legal/optiledger_battery_test_methodology_and_disclaimer.pdf.