

INDEPENDENT

Electric Vehicle Battery Certificate

Certificate issued by



Certificate creation time: 2026-10-13, 13:26

Certificate number: 20261013.198

Vehicle information

Registration number / VIN
TZJ78N / YV1XZERRXR2267645

Brand / Model
Volvo XC40

Odometer
173360 km

Battery type
NMC

Charging port type
CCS

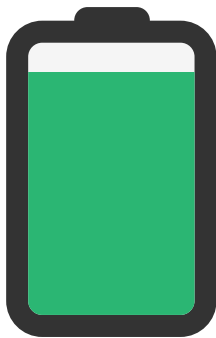
Test results

Date and time of test: 2026-10-13, 11:49

Test performed by:

kvd bil

State of health (SOH)



89%

Battery capacity

Estimated capacity

70.4 kWh

Factory new capacity

79.0 kWh

WLTP range

Estimated WLTP

477 km

Factory new WLTP

535 km

Diagnostics

	VALUE		MIN	MAX	DELTA
SOC	-	Battery temperature	-	-	-
Pack voltage	451.7V	Cell voltage	4.167V	4.189V	22mV

Cell voltages

1-24	4.180	4.178	4.183	4.181	4.177	4.178	4.176	4.179	4.181	4.178	4.179	4.180	4.180	4.177	4.178	4.180	4.181	4.179	4.181	4.183	4.178	4.171	4.176	4.176
25-48	4.178	4.179	4.175	4.182	4.177	4.179	4.185	4.178	4.177	4.173	4.174	4.179	4.167	4.173	4.174	4.174	4.181	4.177	4.177	4.181	4.177	4.179	4.185	4.185
49-72	4.181	4.182	4.186	4.185	4.186	4.181	4.182	4.184	4.184	4.182	4.184	4.176	4.182	4.185	4.186	4.186	4.186	4.189	4.189	4.185	4.187	4.181	4.186	4.184
73-96	4.181	4.183	4.182	4.182	4.184	4.182	4.185	4.186	4.186	4.187	4.186	4.187	4.181	4.186	4.182	4.182	4.181	4.184	4.183	4.185	4.189	4.189	4.189	4.186

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.