

INDEPENDENT

Electric Vehicle Battery Certificate

Certificate issued by



Certificate creation time: 2026-10-12, 10:05

Certificate number: 20261012.71

Vehicle information

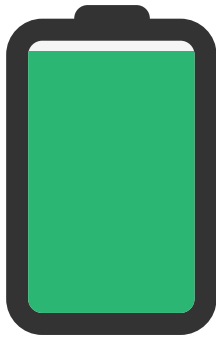
Registration number / VIN JBE51N / YV1XZEHR8S2563206 Brand / Model Volvo EX40 Odometer 56970 km Battery type NMC Charging port type CCS

Test results

Date and time of test: 2026-10-12, 09:55

Test performed by: kvdbil

State of health (SOH)



96%

Battery capacity

Estimated capacity 76.2 kWh
Factory new capacity 79.0 kWh

WLTP range

Estimated WLTP
Factory new WLTP

Diagnostics

	VALUE		MIN	MAX	DELTA
SOC	-	Battery temperature	8.0°C	9.0°C	1.0°C
Pack voltage	432.8V	Cell voltage	4.003V	4.011V	8mV

Cell voltages

1-24	4.005	4.007	4.003	4.005	4.005	4.005	4.005	4.005	4.005	4.007	4.006	4.005	4.004	4.006	4.006	4.005	4.007	4.005	4.006	4.007	4.005	4.005	4.010	4.007
25-48	4.007	4.011	4.007	4.005	4.010	4.006	4.007	4.010	4.005	4.005	4.003	4.008	4.005	4.005	4.005	4.007	4.006	4.006	4.003	4.004	4.010	4.010	4.007	4.005
49-72	4.006	4.009	4.010	4.009	4.007	4.005	4.008	4.010	4.008	4.006	4.008	4.007	4.010	4.009	4.009	4.006	4.006	4.006	4.005	4.005	4.008	4.009	4.006	4.009
73-96	4.010	4.006	4.008	4.009	4.010	4.006	4.008	4.009	4.008	4.008	4.008	4.005	4.011	4.009	4.011	4.008	4.007	4.008	4.009	4.010	4.010	4.006	4.009	4.008

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.