INDEPENDENT

## **BATTERY CERTIFICATE**



CERTIFICATE NUMBER: 778FA087-4BF1-490B-88F2-129662491616

VEHICLE

**BRAND:** Volvo

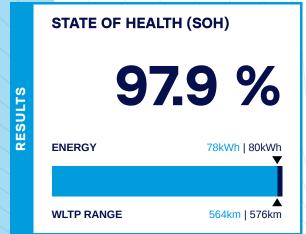
MODEL: XC40 Recharge - 82 kWh

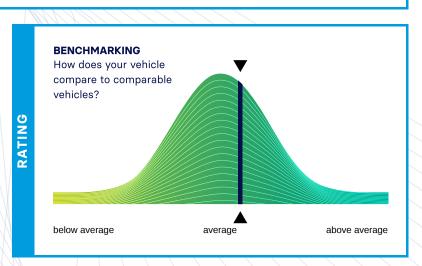
MILEAGE: 41,226 km

VIN: YV1XZERRXR2274160

**DATE AND TIME:** 05.12.2025, 15:54:43

**EXECUTED BY:** Carla AB





Battery Management System (BMS)

Battery Sensor

Battery Measurements

Battery Cell Voltages

Vehicle Communication



**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.

horas Reise

Dr. Marcus Berger, CEO





**CELL VOLTAGES DIAGRAM** 

	Gross	Net (Nominal)	Usable
Current:	80.3kWh	78.3kWh	76.3kWh
New:	82.0kWh	80.0kWh	78.0kWh
			Gross         Net (Nominal)           Current:         80.3kWh         78.3kWh           New:         82.0kWh         80.0kWh

w.		WLTP	Typical	Individual
RANGE	Current:	475-564km	400km	368km
A.	New:	485-576km	409km	375km

<b>70</b>	AVILOO Box connected.	15:54:39
00.	FLASH Test started.	~
PROTOCOL	Vehicle detected.	<b>✓</b>
<u>a</u>	Starting data acquisition.	<b>✓</b>
EXECUTION	Finished data acquisition.	<b>✓</b>
OO	Analyzing data.	~
EXE	Analysis completed.	<b>~</b>

Voltage Sensor	<b>~</b>
Current Sensor	~
Temperature Sensors	~
Cell Voltage Sensors	<b>✓</b>

		Value	Status
	BMS State of Charge (SoC)*:	80%	
BMS	SoC calculation accuracy:		~
ω	BMS State of Health (SoH)*:	99%	
	SoH calculation accuracy:		<b>~</b>

SL		Min	Max	Delta	Status
E I	Battery Temperature	6.8°C	8.4°C	1.6°C	~
REV	Cell Voltage	4.120V	4.129V	9mV	~
MEASUREMENTS	Pack Voltage	445.6V			
4EA	Average Current	-4.5A			

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1 - 20	4.124	4.124	4.127	4.126	4.128	4.128	4.128	4.128	4.126	4.122	4.124	4.126	4.127	4.126	4.123	4.126	4.125	4.127	4.127	4.126
21 - 40	4.122	4.125	4.122	4.128	4.128	4.127	4.124	4.126	4.125	4.127	4.124	4.124	4.124	4.125	4.127	4.126	4.126	4.125	4.126	4.124
41 - 60	4.126	4.123	4.127	4.124	4.127	4.124	4.124	4.127	4.124	4.128	4.124	4.124	4.127	4.124	4.124	4.125	4.128	4.124	4.124	4.124
61 - 80	4.127	4.124	4.124	4.124	4.127	4.128	4.128	4.128	4.128	4.125	4.125	4.128	4.123	4.124	4.128	4.128	4.125	4.125	4.126	4.125
81 - 100	4.127	4.127	4.129	4.128	4.126	4.126	4.126	4.127	4.125	4.128	4.128	4.126	4.125	4.125	4.127	4.120	4.125	4.124	4.122	4.125
101 - 108	4.128	4.122	4.123	4.128	4.124	4.124	4.127	4.124	/	/	/	/	/	/	/	/	/	/	/	/
MIN 4.120 4.121 4.122 4.123 4.124 4.126 4.127 4.128 4.129 MAX  AVERAGE																				

SENSORS

<sup>\*</sup>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.