INDEPENDENT

BATTERY CERTIFICATE

AVILOO
BATTERY DIAGNOSTICS

CERTIFICATE NUMBER: 75BD24F6-89F2-468C-8235-214F204E0C84

VEHICLE

BRAND: Volkswagen
MODEL: ID4 - 77 kWh

MILEAGE: 50,626 km
VIN: WVGZZZE2ZPE068804
DATE AND TIME: 12/02/2026, 11:29:13

EXECUTED BY: Carla AB

RESULTS

STATE OF HEALTH (SOH)

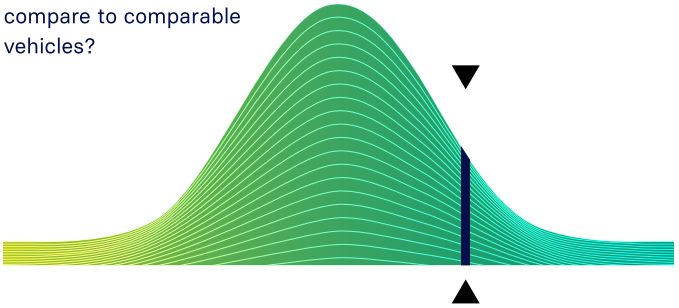
96.7 %

ENERGY 74kWh | 77kWh

WLTP RANGE 529km | 547km

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

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.

Dr. Marcus Berger, CEO

CARA Approved Battery Health Check

BATTERY IS TESTED AND AVILOO CERTIFIED. SHT

AVILOO CERTIFIED

ENERGY

	Gross	Net (Nominal)	Usable
Current:	79.3kWh	74.4kWh	71.5kWh
New:	82.0kWh	77.0kWh	74.0kWh

RANGE

	WLTP	Typical	Individual
Current:	446-529km	378km	360km
New:	461-547km	391km	372km

EXECUTION PROTOCOL

AVILOO Box connected. **12:29:09**

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

SENSORS

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

BMS

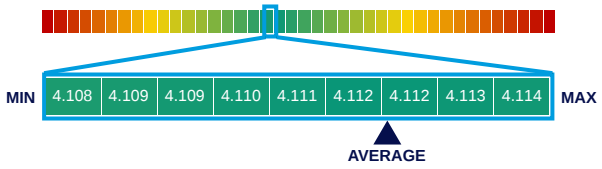
	Value	Status
BMS State of Charge (SoC)*:	100%	
SoC calculation accuracy:		✓
BMS State of Health (SoH)*:	98%	
SoH calculation accuracy:		✓

MEASUREMENTS

	Min	Max	Delta	Status
Battery Temperature	14.0°C	15.1°C	1.1°C	✓
Cell Voltage	4.108V	4.114V	7mV	✓
Pack Voltage	394.8V			
Average Current	-2.9A			

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	4.112	4.111	4.113	4.113	4.112	4.112	4.112	4.113	4.111	4.112	4.113	4.114	4.112	4.113	4.112	4.113	4.111	4.111	4.112	4.112
21 - 40	4.111	4.111	4.111	4.111	4.111	4.111	4.111	4.112	4.112	4.112	4.111	4.111	4.112	4.112	4.114	4.113	4.113	4.112	4.114	4.113
41 - 60	4.112	4.112	4.113	4.112	4.113	4.113	4.113	4.113	4.111	4.111	4.108	4.113	4.111	4.113	4.111	4.111	4.112	4.112	4.112	4.113
61 - 80	4.112	4.112	4.113	4.112	4.111	4.112	4.112	4.112	4.113	4.112	4.112	4.112	4.110	4.111	4.111	4.111	4.111	4.111	4.112	4.111
81 - 96	4.112	4.112	4.113	4.114	4.113	4.113	4.113	4.113	4.111	4.112	4.113	4.112	4.113	4.112	4.113	4.112				



*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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