

# INDEPENDENT BATTERY CERTIFICATE



CERTIFICATE NUMBER: 365B97E7-6D15-4EE4-A2D4-20669655A0A6

## VEHICLE

BRAND: Volkswagen

MILEAGE: 50,258 km

EXECUTED BY: Carla AB

MODEL: ID4 - 77 kWh

VIN: WVGZZZE2ZNP021953

DATE AND TIME:

17.12.2025, 14:11:08

## RESULTS

### STATE OF HEALTH (SOH)

93.9 %

ENERGY

72kWh | 77kWh

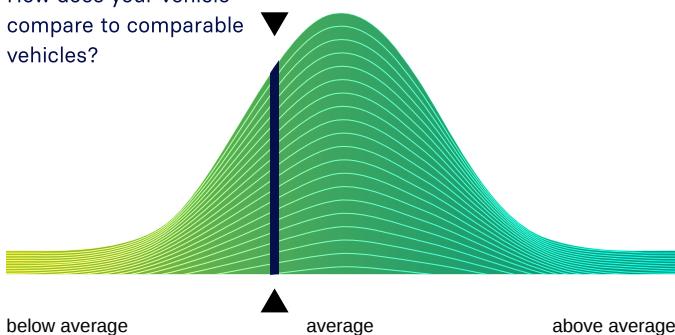
WLTP RANGE

514km | 547km

## RATING

### BENCHMARKING

How does your vehicle compare to comparable vehicles?



## CHECKS

Battery Management System (BMS)



Battery Sensor



Battery Measurements



Battery Cell Voltages



Vehicle Communication



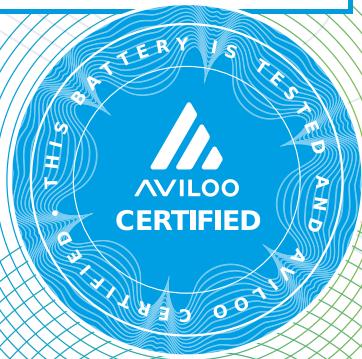
## EVALUATION

### GOOD 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 good condition.

The drive battery is therefore officially AVILOO Certified.

Dr. Marcus Berger, CEO



## ENERGY

Gross	Net (Nominal)	Usable
Current: 77.0kWh	72.3kWh	69.5kWh
New: 82.0kWh	77.0kWh	74.0kWh

## RANGE

WLTP	Typical	Individual
Current: 433-514km	367km	348km
New: 461-547km	391km	370km

## EXECUTION PROTOCOL

AVILOO Box connected. 14:11:04

- 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	✓

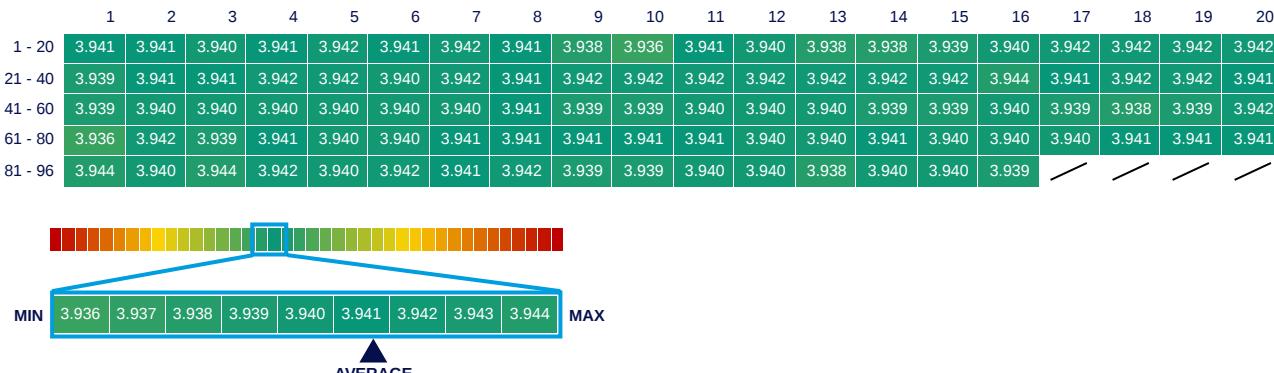
## BMS

	Value	Status
BMS State of Charge (SoC)*:	77%	
SoC calculation accuracy:		✓
BMS State of Health (SoH)*:	93%	
SoH calculation accuracy:		✓

## MEASUREMENTS

	Min	Max	Delta	Status
Battery Temperature	10.1°C	10.6°C	0.5°C	✓
Cell Voltage	3.936V	3.944V	7mV	✓
Pack Voltage	378.3V			
Average Current	-6.5A			

## CELL VOLTAGES DIAGRAM



\*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 Management 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.