INDEPENDENT

BATTERY CERTIFICATE

AVILOO
BATTERY DIAGNOSTICS

CERTIFICATE NUMBER: 9B641EAC-421D-4A84-8579-996F82E829B8

VEHICLE

BRAND: Ford
MODEL: Mustang Mach-E - 78,2 kWh
MILEAGE: 19,181 km
VIN: WF0TK1E44PMB09380
DATE AND TIME: 10/06/2026, 09:17
EXECUTED BY: AAA Auto

RESULTS

Independent
STATE OF HEALTH (SOH)

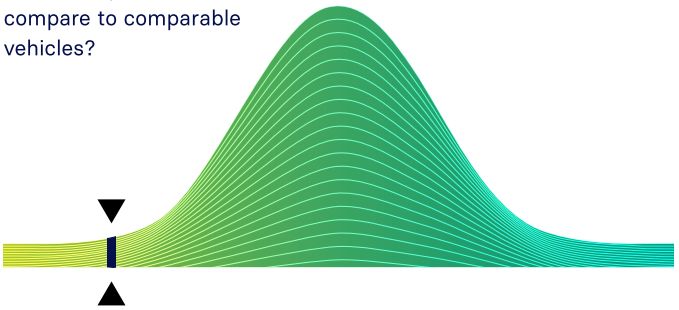
93.5 %

ENERGY 67kWh | 72kWh

WLTP RANGE 439km | 470km

RATING

BENCHMARKING
How does your vehicle compare to comparable vehicles?



CHECKS

- Battery Management System (BMS) ✓
- Battery Sensor ✓
- Battery Measurements ✓
- Battery Cell Voltages ✓
- Vehicle Communication ✓

SCAN FOR DETAILS

EVALUATION

FAIR 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 fair condition.

The drive battery is therefore officially AVILOO Certified.

Dr. Marcus Berger, CEO

CARA Approved Battery Health Check

AVILOO CERTIFIED
BATTERY IS TESTED AND AVILOO CERTIFIED

ENERGY

	Gross	Net (Nominal)	Usable
Current:	73.1kWh	67.5kWh	64.5kWh
New:	78.2kWh	72.2kWh	69.0kWh

RANGE

	WLTP	Typical
Current:	406-439km	321km
New:	435-470km	344km

EXECUTION PROTOCOL

AVILOO Box connected. **09:17:04**

- 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

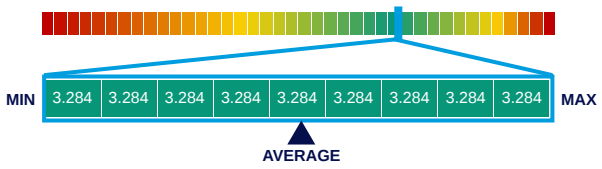
	Value	Status
BMS State of Charge (SoC)*:	41%	
SoC calculation accuracy:		✓
BMS State of Health (SoH)*:	90%	
SoH calculation accuracy:		✓

MEASUREMENTS

	Min	Max	Delta	Status
Battery Temperature	16.0°C	17.0°C	1.0°C	✓
Cell Voltage	3.284V	3.284V	0mV	✓
Pack Voltage	354.9V			
Average Current	-1.0A			

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	3.284	3.284	3.284	3.284	3.284	3.284	3.284	3.284	3.284	3.284	3.284	3.284	3.284	3.284	3.284	3.284	3.284	3.284	3.284	3.284
21 - 40	3.284	3.284	3.284	3.284	3.284	3.284	3.284	3.284	3.284	3.284	3.284	3.284	3.284	3.284	3.284	3.284	3.284	3.284	3.284	3.284
41 - 60	3.284	3.284	3.284	3.284	3.284	3.284	3.284	3.284	3.284	3.284	3.284	3.284	3.284	3.284	3.284	3.284	3.284	3.284	3.284	3.284
61 - 80	3.284	3.284	3.284	3.284	3.284	3.284	3.284	3.284	3.284	3.284	3.284	3.284	3.284	3.284	3.284	3.284	3.284	3.284	3.284	3.284
81 - 96	3.284	3.284	3.284	3.284	3.284	3.284	3.284	3.284	3.284	3.284	3.284	3.284	3.284	3.284	3.284	3.284				



*The values shown here were read directly from the vehicle's battery management system (BMS) and are calculated and provided by the vehicle manufacturer. The State of Health (SoH) displayed corresponds to the value reported by the BMS and is CARA-certified.

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 AVILOO's 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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