CARLY for Enterprise

Predictive Maintenance Report

Attached is the predictive maintenance report for the VIN W1N167117XXXXXXXX, created on 15/07/2026, 13:05, requested by:
Robert Placen (Vehicle Appraiser)

This account is part of the following organisation:
Placen & Partner Vehicle Appraisers

VIN:	**W1N167117XXXXXXXX**
Mileage:	**89,253 km**
Date:	**15/07/2026, 13:05**
Car brand:	**Mercedes**
Car series:	**GLE**
Car model:	**GLE C167**
Build year:	**2023**
Fuel type:	**Hybrid**
Report ID:	**6a58a1c2b7e4f00312d9a4f1**
Adapter ID:	**CST63FFFFFF**

5
Failure predictions

2 (40%)
High urgency

Data basis up to date – last vehicle diagnostics from 15/07/2026

Digital

The failure predictions are based on AI models, live vehicle data and historical fleet data of comparable vehicles. Predictions are statements of probability and do not replace a workshop diagnosis. Carly Solutions GmbH & Co. KG assumes no liability for failures outside the predicted time window.

Prediction method

The prediction combines current fault memory data, live sensor values and wear models from several million vehicle data sets. Plausibility checks and AI procedures evaluate the failure probability, the expected time window and the expected repair costs for each assembly.

Failure predictions

Total: 5

Prioritisation by urgency

No.	Assembly	Urgency	Probability*	Time window
1	ESP control unit – power supply	HIGH	78%	0–4 weeks
2	Electric power steering – power supply	HIGH	71%	0–6 weeks
3	12 V battery – discharge protection active	MEDIUM	54%	2–3 months
4	Seat ventilation front left	LOW	31%	3–6 months
5	Rear right indicator – LED module	LOW	24%	Monitor

The failure probabilities marked with (*) refer to a time window of 90 days from the report date. Some technical terms are shown in English because they come directly from the vehicle or manufacturer systems.

CARLY for Enterprise

Predictive Maintenance Report

Attached is the predictive maintenance report for the VIN W1N167117XXXXXXXX, created on 15/07/2026, 13:05, requested by:
Robert Placen (Vehicle Appraiser)

This account is part of the following organisation:
Placen & Partner Vehicle Appraisers

Predictions in detail

Total: 5

1. ESP control unit – power supply

Reference: fault code U0427 (active, 88,960 km)

Urgency	Probability*	Time window	Cost range
HIGH	78%	0–4 weeks	420–680 €

Recommendation: Check terminal 30 power supply, retighten ground connections, reset control unit. If the fault reoccurs, repair the control unit.

2. Electric power steering – power supply

Reference: fault code B210F (active, 81,616 km)

Urgency	Probability*	Time window	Cost range
HIGH	71%	0–6 weeks	350–540 €

Recommendation: Repair terminal 30 wiring harness, measure contact resistances, re-initialise the steering control unit.

3. 12 V battery – discharge protection active

Reference: fault code P1C5C (active)

Urgency	Probability*	Time window	Cost range
MEDIUM	54%	2–3 months	280–360 €

Recommendation: Perform battery test, check quiescent current draw, replace battery and code it to the energy management system.

4. Seat ventilation front left

Reference: fault code B22D7 (active, 88,640 km)

Urgency	Probability*	Time window	Cost range
LOW	31%	3–6 months	190–260 €

Recommendation: Replace the fan module at the next service interval; check current draw after the repair.

5. Rear right indicator – LED module

Reference: fault code B164B (active, 80,912 km)

Urgency	Probability*	Time window	Cost range
LOW	24%	Monitor	60–120 €

Recommendation: Function check at every workshop visit; replace the LED module only in case of failure.

The failure probabilities marked with (*) refer to a time window of 90 days from the report date. Cost ranges include parts (RRP) and labour at a regional average hourly rate of €145.

CARLY for Enterprise

Predictive Maintenance Report

Attached is the predictive maintenance report for the VIN W1N167117XXXXXXXX, created on 15/07/2026, 13:05, requested by:
Robert Placen (Vehicle Appraiser)

This account is part of the following organisation:
Placen & Partner Vehicle Appraisers

Cost overview & recommendation

1,050–1,580 €
Measures 0–3 months

2,870–4,230 €
Risk costs in case of failure

Cost range by time window

Immediate measures (0–6 weeks)	**770–1,220 €**
Short-term measures (2–3 months)	**280–360 €**
Monitoring items (from 3 months)	**250–380 €**
Savings potential through planned maintenance	**approx. 38%**

Recommendation for the fleet manager

Items 1 and 2 should be commissioned together in a single workshop appointment within the next four weeks to minimise downtime. Item 3 can be combined with the next regular service interval. For items 4 and 5, a follow-up at the next diagnostics session is recommended. With planned implementation, the risk of an unplanned breakdown within the prediction period decreases significantly.

All cost figures are estimates based on parts prices (RRP) and regional average hourly rates; the actual effort may deviate after workshop findings.