SEA **Springfield Euro Auto** EXAMPLE SHOP
service@springfield-euro-auto.example

2019 Mercedes-Benz AMG C63 S at 50,000 mi

WDDWF8HB7KR123456

MODEL / CHASSIS	ENGINE	MILEAGE	DRIVETRAIN
AMG C63 S · W205 AMG C63 S sedan	Mercedes-Benz / AMG M177, M176 and M178 4.0 biturbo V8	50,000 mi	RWD
BUILD MONTH	**REPORT DATE**	**MODE**	**PREPARED FOR**
Not entered (door jamb)	October 27, 2026	Shop	Sample Owner

VIN check: check digit valid; model-year code 'K' = 2019, matches the year entered. The VIN doesn't record the build month. Sample report: synthetic VIN.

1 · SUMMARY

What this car needs, in order

Each item compares this car's mileage with when owners and shops report the part failing. It is not an inspection: our technician decides what the car actually needs.

0	0	4
jobs recommended now	to plan in the next 30,000 miles	to watch or check at each service

Safety recalls NHTSA lists for this model year (5 of 10)

- **23V-854** · Body · front roof panel: The front roof panel ahead of the panoramic sunroof can come loose and fall off, becoming a road hazard.
- **21V-197** · Body · front roof panel: The bonding of the front roof panel ahead of the panoramic sunroof can weaken, so the panel can come off while driving.
- **21V-032** · Seat belts · front retractors: The front seat belts may not fully retract, which can discourage people from wearing them.
- **19V-540** · Active Brake Assist · radar: Active Brake Assist may not brake automatically as expected.
- **18V-850** · Steering · rack locknut: A locknut in the steering rack can break under high load and jam the steering in one position.

A model-year list, not a VIN check. The full report lists the others. Repairs are free at a Mercedes-Benz dealer if open. Check this VIN at nhtsa.gov/recalls.

Step 0 · Free: run the VIN at nhtsa.gov/recalls and ask a Mercedes-Benz dealer for a campaign printout. Read the build month (MM/YY) on the driver's door-jamb label.

Recommended now at the next service

Good news: nothing on the 4.0L M177 / M176 / M178 biturbo V8 watch list is due at this mileage. Worth a fresh look at about 60,000 mi.

Next 12 months up to about 62,000 mi

Nothing scheduled here.

Within the next 30,000 miles up to 80,000 mi

Nothing else enters its reported range in this window.

Watch inspect at each service, fix on condition, or optional

Engine thermostat (sealing ring detaches) — `Free if covered` check the VIN
Any mileage (MY2019–2023 C/E/G/GLC/GLE/GLS/GT/S/SL with M176/M177/M178) · Ask for this check at every service

Oil leaks: cylinder head covers and rear main seal — **Ask us for a quote**
Any mileage (All M176/M177 engines) · Inspect at each service; fix at the first sign

Throttle actuator connector pins — **Ask us for a quote**
Any mileage (All M177) · Inspect at each service; fix at the first sign

Misfires (software, coils and spark plugs) — **Ask us for a quote**
Any mileage (AMG M177/M178 (C63, AMG GT and others)) · Inspect at each service; fix at the first sign

Recommended now

No repairs due now

Springfield Euro Auto prices (example)

Planned through 80,000 mi

No repairs planned

Now + next 12 months + next 30,000 miles. Excludes “watch” and optional items.

Prices are Springfield Euro Auto's estimates for typical parts and labor. They don't include tax, shop supplies or disposal fees, and may change after inspection or if part prices change. Not a written repair estimate: Springfield Euro Auto confirms the price and gets your OK before any work.

Bundled jobs are priced together because the labor overlaps. Routine service (oil, brakes, tires) isn't included; factory fluid and spark plug intervals are listed below.

FACTORY MAINTENANCE

The maker's maintenance schedule isn't on this report

This report doesn't include the maker's scheduled maintenance for this car yet, so brake fluid, spark plugs, coolant and transmission fluid aren't listed even when they're due. Check the service records and the maker's schedule for this car.

WHERE 50K SITS FOR EACH WEAK POINT

#	WEAK POINT	REPORTED RANGE	THIS CAR
1	Engine thermostat (sealing ring detaches)	MY2019–2023 C/E/G/GLC/GLE/GLS/GT/S/SL with M176/M177/M178 OFFICIAL	Any mileage
2	Oil leaks: cylinder head covers and rear main seal	All M176/M177 engines OFFICIAL	Any mileage
3	Throttle actuator connector pins	All M177 OFFICIAL	Any mileage
4	Misfires (software, coils and spark plugs)	AMG M177/M178 (C63, AMG GT and others) OFFICIAL	Any mileage

Colors compare mileage with reported failures, not the car's condition. Red: past the range. Amber: inside or approaching. Green: below, or not listed for a recall.

2 · RECALLS AND BULLETINS

Recalls to check for this 2019 Mercedes-Benz AMG C63 S

Safety recall repairs are free at Mercedes-Benz dealers. Nothing here can tell whether a recall is open or already done on this VIN; only the official VIN lookup or a dealer can.

Official VIN check (2 minutes)

1. Go to nhtsa.gov/recalls and enter WDDWF8HB7KR123456.
2. Note every recall shown as “Recall incomplete” and keep a screenshot.
3. Ask a Mercedes-Benz dealer for a campaign printout; it also lists completed campaigns.

4.0L M177 / M176 / M178 BITURBO V8 RECALLS WE TRACK

Other 4.0L M177 / M176 / M178 biturbo V8 recalls we track, not listed by NHTSA for this model and year: 19V-821 (camshaft idler gear can detach (2018–2019 S560)), 20V-048 (turbocharger oil feed line can leak (2018–2019 AMG 63)), 20V-173 (engine oil plugs can leak (2018–2019 S560)), 21V-704 (fuel tank suction jet pump (2021 S580)), 21V-843 (engine software can cause a stall (2021 S580)), 21V-961 (fuel rail to injector leak (2019–2020)), 23V-445 (fuel pump may shut down (2021–2023)), 23V-880 (fuel pump may shut down (2021–2024)).

EVERY RECALL NHTSA LISTS FOR THE 2019 MERCEDES-BENZ AMG C63 S (10)

RECALL	COMPONENT	WHAT CAN HAPPEN (NHTSA, SHORTENED)
23V-854	Body · front roof panel	The front roof panel ahead of the panoramic sunroof can come loose and fall off, becoming a road hazard. Details
21V-197	Body · front roof panel	The bonding of the front roof panel ahead of the panoramic sunroof can weaken, so the panel can come off while driving. Details
21V-032	Seat belts · front retractors	The front seat belts may not fully retract, which can discourage people from wearing them. Details
19V-540	Active Brake Assist · radar	Active Brake Assist may not brake automatically as expected. Details
18V-850	Steering · rack locknut	A locknut in the steering rack can break under high load and jam the steering in one position. Details
22V-365	Emergency call (eCall)	The emergency call (eCall) system may not connect, which could delay help after a crash. Details
22V-232	Rearview camera · software	The rearview camera image may not appear, reducing the view behind the car when reversing. Details
21V-509	Headlights · aim	LED headlights may have been aimed wrongly during a repair, reducing visibility. Details
21V-058	Emergency call (eCall)	The emergency call (eCall) system may send the wrong location, which could delay help after a crash. Details
20V-395	Stability control · software	The wrong stability-control (ESP) software may make the system react incorrectly. Details

Source: NHTSA recalls API, fetched 2026-10-27 and combined across NHTSA model names: AMG C63. Safety categories (air bags, fire, brakes, stalling, roll-away and loss of control) are listed first; listings whose NHTSA text names another engine, or an aftermarket part, go last. `OFFICIAL`
Left out of this list (AMG C63): None. The roof-panel recalls (21V-197, 23V-854) apply only to cars with the panoramic sunroof.

SERVICE ACTIONS, BULLETINS AND WARRANTY PROGRAMS

Manufacturer bulletins and warranty programs for this engine are cited on each weak point in section 4, where they apply.

4 · THE 4 WEAK POINTS

Each weak point, one card each

Every figure carries its source. Retailer part numbers are shown only when the retailer lists them for this chassis (W205).

1 Engine thermostat (sealing ring detaches)

Any mileage

Severity: Medium: leaks and wear · 0 mentions in counted NHTSA complaints

COMPUTED FROM NHTSA DATA

Reports cover a wide mileage span (MY2019–2023 C/E/G/GLC/GLE/GLS/GT/S/SL with M176/M177/M178), so mileage doesn't say much here. Range: MY2019–2023 C/E/G/GLC/GLE/GLS/GT/S/SL with M176/M177/M178 OFFICIAL [2]

WHAT FAILS OFFICIAL [2]

The sealing ring in the engine thermostat can come loose, so the engine warms up slowly and sets P0128 with a check-engine light. Mercedes replaces the thermostat and updates software under a 15-year/150k extended warranty.

SYMPTOMS

- Check-engine light with P0128
- Slow warm-up
- Weak cabin heat

IF IT'S LEFT TOO LONG

Mostly an emissions-light problem.

IS IT WORTH DOING EARLY? OUR ESTIMATE

Free under the extended warranty; check the VIN.

ESTIMATED REPAIR COST

Free under the engine thermostat extended warranty (15 yr/150k)	**Free if covered** OFFICIAL [2] published independent-shop range
No published bill outside the program	**No published price** reported range for the bill after a failure

PARTS FOR W205

- Ask your parts supplier for the OE part number for this VIN.

QUESTIONS TO ASK US

- Thermostat replaced under the extension?

2 Oil leaks: cylinder head covers and rear main seal

Any mileage

Severity: Medium: leaks and wear · 0 mentions in counted NHTSA complaints

COMPUTED FROM NHTSA DATA

Reports cover a wide mileage span (All M176/M177 engines), so mileage doesn't say much here. Range: All M176/M177 engines OFFICIAL [3][4]

WHAT FAILS OFFICIAL [3][4]

Mercedes has open bulletins for oil leaks at the cylinder head cover area (cause under investigation) and at the rear main seal and seal plate. The rear-main fix replaces the air/oil separators first, then the seal and plate.

ESTIMATED REPAIR COST

No published price	**Our price is in the plan above** ask us for a written quote

SYMPTOMS

- Oil smell
- Oil at the back of the engine or bell housing
- Oil on the cylinder head covers

IF IT'S LEFT TOO LONG

Oil can drip onto hot exhaust parts.

IS IT WORTH DOING EARLY? OUR ESTIMATE

Reseal when wet.

No published bill	**No published price** reported range for the bill after a failure

PARTS FOR W205

- Ask your parts supplier for the OE part number for this VIN.

QUESTIONS TO ASK US

- Any oil leaks or oil smell?

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3 Throttle actuator connector pins

Any mileage

Severity: Medium: leaks and wear · 1 mentions in counted NHTSA complaints

COMPUTED FROM NHTSA DATA

Reports cover a wide mileage span (All M177), so mileage doesn't say much here. Range: All M177 OFFICIAL [5]

WHAT FAILS OFFICIAL [5]

Higher electrical resistance in the pins of the left and right throttle actuator connectors sets throttle codes and can cut power. Mercedes fits new sockets with silver-coated pins.

SYMPTOMS

- Check-engine light with throttle codes
- Loss of power

IF IT'S LEFT TOO LONG

Reduced power while the fault is active.

IS IT WORTH DOING EARLY? OUR ESTIMATE

Repair the connectors when the codes appear.

ESTIMATED REPAIR COST

No published price	**Our price is in the plan above** ask us for a written quote
No published bill	**No published price** reported range for the bill after a failure

PARTS FOR W205

- Ask your parts supplier for the OE part number for this VIN.

QUESTIONS TO ASK US

- Any throttle codes or power loss?

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4 Misfires (software, coils and spark plugs)

Any mileage

Severity: Medium: leaks and wear · 7 mentions in counted NHTSA complaints

COMPUTED FROM NHTSA DATA

Reports cover a wide mileage span (AMG M177/M178 (C63, AMG GT and others)), so mileage doesn't say much here. Range: AMG M177/M178 (C63, AMG GT and others) OFFICIAL [6][7]

WHAT FAILS OFFICIAL [6][7]

ESTIMATED REPAIR COST

Misfire codes on these engines have several causes. Mercedes updates engine software, checks that the newer ignition coils are fitted and inspects spark plugs for ceramic or electrode damage.

SYMPTOMS

- Check-engine light with misfire codes
- Rough running

IF IT'S LEFT TOO LONG

Misfires can overheat the catalytic converters.

IS IT WORTH DOING EARLY? OUR ESTIMATE

Update software and check coils and plugs at the first misfire.

No published price	**Our price is in the plan above** ask us for a written quote
No published bill	**No published price** reported range for the bill after a failure

PARTS FOR W205

- Ask your parts supplier for the OE part number for this VIN.

QUESTIONS TO ASK US

- Any misfires?
- Plugs and coils last changed?

5 · ALSO REPORTED, NOT RANKED

Other themes in 4.0L M177 / M176 / M178 biturbo V8 owner complaints

Every NHTSA complaint theme with 10 or more counted reports is either a weak point above or explained here.

THEME	COMPLAINTS	WHY IT ISN'T A WEAK POINT

How this report is built

Inputs. VIN, model year, model, mileage and build month (if entered). Model and engine are checked with NHTSA's vPIC decoder.

Mileage positions. Below: more than 10,000 miles before the reported range. Approaching: within 10,000. Inside: in the range, or past the start of an open-ended range. Past: beyond the top of the range. These bands are our rules, not an industry standard.

The plan. Critical items inside or past their range go first; high-severity items follow, and jobs that share labor are bundled. At most three jobs land in “Recommended now”. Leaks that are cheap to watch are fixed on condition; inspections are asked for at each service.

Costs. Published independent-shop ranges from shop quotes, retailer prices and owner reports. Shop prices come from the issuing shop. The worst-case cost of every item failing is not shown: it isn't an expected cost.

Labels. `OFFICIAL` NHTSA/Mercedes-Benz documents · `SHOP/RETAILER` parts prices and shop articles · `FORUM/BLOG` owner forums and blogs · `COMPUTED FROM NHTSA DATA` our analysis of NHTSA data · `OUR ESTIMATE` ours.

NHTSA complaint data. Pulled Oct 27, 2026 from NHTSA's complaints API for C-, E-, GT-, GLE-, GLS-, S-, G- and GLC-Class complaints that name a 63, 560/580 or G550 model or the 4.0L V8, plus AMG C63 S, AMG G63, GLE 580, GLS 580 and S 560/580 nameplates (NHTSA files Mercedes-Benz complaints by class): 130 complaints. Some of these nameplates were sold with other engines too. For some we kept only complaints whose text names this engine (which under-counts); for others we left out complaints that name another engine or a hybrid (so a few about other engines can remain). Themes are keyword matches on the complaint text. Small complaint pool; most owners name the class, not the engine. `COMPUTED FROM NHTSA DATA`

THEME	COMPLAINTS	IN THIS REPORT
Stalling / loss of power	8	—
Misfire	7	Item 4
Throttle faults	1	Item 3
Thermostat / warm-up	0	Item 1
Oil leak	0	Item 2

Limits: complaints are self-reported and not adjusted for cars sold; keyword matching over- and under-counts; owners rarely file safety complaints about oil seeps, so leaks look rarer than they are.

SOURCES

1. NHTSA owner complaints for 2015–2021 C63, 2018–2025 E63, AMG GT, GT 63 4-door, 2020–2025 GLE/GLS 580 and 63, 2018–2025 S560/S580/S63, 2016–2025 G550/G63 and GLC63, pulled Oct 27, 2026 (ODI numbers in the cost notes) `OFFICIAL`
https://www.nhtsa.gov/report-a-safety-problem#complaints

2. Mercedes-Benz EW – Engine Thermostat (incl. software update): MY2019–2023 models with M176/M177/M178: engine thermostat covered to 15 yr/150k (sealing ring can detach) (2025-01-31), filed with NHTSA `OFFICIAL`
https://static.nhtsa.gov/odi/tsbs/2025/MC-11013884-0001.pdf

3. Mercedes-Benz LI01.20-P-080884: All M176 and M177 engines with oil leaks at cylinder head cover area (2026-08-12), filed with NHTSA `OFFICIAL`
https://static.nhtsa.gov/odi/tsbs/2026/MC-11036229-0001.pdf

4. Mercedes-Benz LI01.40-P-079518: All M17x – oil leak from rear main seal area (2025-07-16), filed with NHTSA `OFFICIAL`
https://static.nhtsa.gov/odi/tsbs/2025/MC-11020807-0001.pdf

5. Mercedes-Benz LI07.10-P-080384: All M177 with throttle actuator DTCs P2135/P2136/P2101 (connector pins) (2026-08-07), filed with NHTSA `OFFICIAL`
https://static.nhtsa.gov/odi/tsbs/2026/MC-11036076-0001.pdf

6. Mercedes-Benz LI54.21-P-062006: C63/GT 177/178: check engine light on with misfire DTCs, engine running roughly (2018-11-13), filed with NHTSA `OFFICIAL`
https://static.nhtsa.gov/odi/tsbs/2019/MC-10162209-9999.pdf

7. Mercedes-Benz LI07.61-P-070707: M17x check engine light on with misfire DTCs (2025-01-17), filed with NHTSA `OFFICIAL`
https://static.nhtsa.gov/odi/tsbs/2025/MC-11013175-0001.pdf

8. NHTSA recall records: 19V-821, 20V-048, 20V-173, 21V-704, 21V-843, 21V-961, 23V-445 and 23V-880, checked Oct 27, 2026 `OFFICIAL`
https://www.nhtsa.gov/recalls?nhtsaId=20V048000

This report contains no affiliate links; retailer prices are quoted as price sources only. Found an error? Email hello@repairahead.com.

PLEASE READ

Important

Based on public records and published repair costs. Not a diagnosis or a guarantee. Your technician's inspection decides what your car needs. Confirm recalls with a dealer using your VIN.

Informational only. This report is not a mechanical inspection, a diagnosis, or professional, legal or financial advice. It was issued by Springfield Euro Auto using RepairAhead data; the inspection findings and prices are the shop's.

Reported ranges and estimates, not predictions

Failure mileages are reported ranges compiled from public owner complaints, manufacturer bulletins, recalls and repair-shop reports. Costs are estimates. Parts can fail earlier, later or not at all, and other problems can occur. Statistics from owner complaints describe past reports to NHTSA; NHTSA has not reviewed or endorsed this analysis.

Safety issues go to a dealer

If you notice overheating, a burning or fuel smell, smoke, a brake-assist problem, stalling or loss of power, pull over when it's safe and contact a Mercedes-Benz dealer or qualified shop. Safety recall repairs are free at Mercedes-Benz dealers. Confirm recalls for this VIN at nhtsa.gov/recalls.

No warranty

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