



Mercedes-Benz



2020

Mercedes-Benz C-Class

C220d 9G-TRONIC diesel 4x2 automatic



7.0 
/10

Clean Air
Index

5.7 
/10

Energy Efficiency
Index

2.9 
/10

Greenhouse Gas
Index



Laboratory Test

| | NMHC | NO _x | NH ₃ | CO | PN |
|---------------------------------|------|-----------------|-----------------|----|----|
| 6.9/10 Cold Test | ● | ● | ● | ● | ● |
| 7.8/10 Warm Test | ● | ● | ● | ● | ● |
| 5.7/10 Cold Ambient Test | ● | ● | ● | ● | ● |
| 8.2/10 Highway | ● | ● | ● | ● | ● |



Road Test

| | | | | | |
|---------------------------------|---|---|---|---|---|
| 7.3/10 On-Road Drive | ● | ● | ● | ● | ● |
| 5.8/8 On-Road Heavy Load | ● | ● | ● | ● | ● |
| 2.7/5 On-Road Light Load | ● | ● | ● | ● | ● |
| 4.0/5 On-Road Short Trip | ● | ● | ● | ● | ● |
| 1.0/2 Congestion | ● | ● | ● | ● | ● |



Robustness



n.a.



good



adequate



marginal



weak



poor

Comments

The C220d performs very well in this part of the assessment. Results are predominantly good or adequate in all tests, with all pollutants well controlled. Even in the more demanding tests, such as the cold ambient temperature and high-load highway tests, emissions are not excessive for any pollutant.

Energy Efficiency Tests



Laboratory Test

Energy

6.7/10 Cold Test



7.0/10 Warm Test



3.7/10 Cold Ambient Test



5.4/10 Highway



Consumption

Driving Range

Average

5.3 l/100 km

1258 km

Worst-case

6.9 l/100 km

955 km



n.a.



good



adequate



marginal



weak
















poor

Comments

Given that the C220d is quite a heavy car and has a 143 kW engine, an average fuel consumption of 5.3 l/100 km in the laboratory tests is an impressive achievement. The car's good efficiency is reflected in the index of 5.7.

2.9 Greenhouse Gases Tests

/10

|  | <u>Greenhouse gases</u> | CO ₂ | N ₂ O | CH ₄ |
|--|-------------------------|---|---|---|
| 2.3/7 | Cold Test |  |  |  |
| 2.4/7 | Warm Test |  |  |  |
| 1.6/7 | Cold Ambient Test |  |  |  |
| 2.1/7 | Highway |  |  |  |



n.a.



good



adequate



marginal



weak



poor

Comments


This is the area of assessment in which the C220d performs most weakly. Control of Methane (CH₄) is good in all tests but values of Nitrous Oxide (N₂O) exceed Green NCAP's upper limits and this decreases the Greenhouse Gas Index.

Our Verdict

The C-Class has been in Mercedes-Benz's line-up, and one of its best-sellers, for many years. This is the fourth generation vehicle and is tested here with the 143 kW turbodiesel, equipped with selective catalyst reduction (SCR) and a diesel particulate filter (DPF). This after-treatment works very well, with oxides of Nitrogen (NO_x) and particulates being kept under control, even in Green NCAP's more demanding tests. Turning in a fuel consumption figure of 6.9 l/100 km in the high-load highway test is a credit to the vehicle's energy efficiency. Sadly, the average index and the car's star rating are limited by the car's emissions of greenhouse gases. Here, values of Nitrous Oxide (N₂O), a very potent greenhouse gas but one which is not regulated by legislation, exceed Green NCAP's limits and this drops the index in this area to 2.9. Nevertheless, the car emerges with a good 3 star rating overall.

Disclaimer

| | | | |
|---------------------------|-------------------------|---------------------|---------------------------|
| Publication Date | Tested Car | Emissions Class | Tyres |
| 11 2020 | WDD2050141R46xxxx | Euro 6d-Temp | 225/45 R18 |
| Mass | Engine Size | Engine Power/Torque | Published CO ₂ |
| 1,615 kg | 1,950 cc | 143 kW/400 Nm | 117 g/km |
| Declared Battery Capacity | Published Driving Range | | |
| n.a. | n.a. | | |

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