

Six Cylinder Engines Make a Comeback

Description

Mercedes-Benz has announced a significant shift in its engine offerings with the introduction of the GLC 53, featuring a turbocharged 3.0-litre inline-six engine. This move responds to previous critiques regarding the brand's reliance on four-cylinder engines in some AMG models, particularly the GLC 43 and 63.

The GLC 53's engine, designated as "M256M", has been enhanced to produce 443 lb-ft (600 Newton-meters) of torque, marking an increase of 30 lb-ft (41 Nm) compared to the CLE 53 variant. An overboost function allows for a temporary torque increase to 472 lb-ft (640 Nm) for a duration of 10 seconds. This updated engine incorporates a revised cylinder head, a new intake camshaft, an advanced intercooler, and an enhanced intake system.

In terms of design, the GLC 53 will be available as a "Coupe," characterised by its sloped roofline, appealing to consumers prioritising aesthetics over practicality. Both the traditional and Coupe variants can accelerate from 0 to 60 mph (96 km/h) in just 4.1 seconds, reaching a top speed of 167 mph (270 km/h) when equipped with the AMG Dynamic Plus Package. Additionally, a new exhaust system aims to provide a more robust auditory experience, featuring "special resonators."

An advanced nine-speed torque-converter automatic transmission delivers power to all four wheels and can be complemented by an optional electronically limited-slip differential. Notably, this model introduces drift mode, a feature that enhances driving performance for enthusiasts, albeit at an additional cost.

Mercedes has not yet disclosed pricing, but the GLC 53 is expected to be positioned between the GLC 43, priced at \$68,900, and the GLC 63, which starts at \$88,100.

Vocabulary List:

1. **Turbocharged** /'təʊ:bə:tʃəd/ (adjective): Equipped with a turbocharger to enhance engine power and efficiency.
2. **Torque** /tɔ:k/ (noun): A measure of rotational force provided by an engine.
3. **Intercooler** /,ɪn.tər'ku:lər/ (noun): A heat exchanger used to cool air compressed by the turbocharger before it enters the engine.
4. **Auditory** /'ɔ:dɪ:tɔ:rɪ/ (adjective): Relating to the sense of hearing.
5. **Transmission** /træn'smɪʃ.ən/ (noun): The system in a vehicle that transmits power from the engine to the wheels.
6. **Differential** /,dɪf.ər'ēn.ʃəl/ (noun): A component in vehicle drive systems that allows wheels to rotate at different speeds.

Comprehension Questions

Multiple Choice

1. Which engine is featured in the Mercedes-Benz GLC 53?

- Option: Four-cylinder
- Option: Inline-six
- Option: V8
- Option: V6

2. What is the torque output of the GLC 53 engine?

- Option: 600 lb-ft
- Option: 443 lb-ft
- Option: 472 lb-ft
- Option: 500 lb-ft

3. What is the top speed of the GLC 53 when equipped with the AMG Dynamic Plus Package?

- Option: 160 mph
- Option: 167 mph
- Option: 175 mph
- Option: 180 mph

4. Which feature enhances driving performance for enthusiasts in the GLC 53?

- Option: Eco mode
- Option: Drift mode
- Option: Comfort mode
- Option: City mode

5. What is the acceleration time from 0 to 60 mph for the GLC 53?

- Option: 3.9 seconds
- Option: 4.1 seconds
- Option: 4.5 seconds
- Option: 5.0 seconds

6. Which models were criticized for their reliance on four-cylinder engines?

- Option: GLC 53 and 63

Option: GLC 53 and Coupe

Option: GLC 43 and 63

Option: GLC 43 and Coupe

True-False

7. The GLC 53 features a V8 engine.

8. The GLC 53 "Coupe" prioritizes practicality over aesthetics.

9. The GLC 53 can temporarily boost torque to 600 lb-ft.

10. The GLC 53 comes standard with drift mode.

11. The GLC 53 pricing is known to be lower than the GLC 63.

12. The GLC 53 introduces an electronically limited-slip differential.

Gap-Fill

13. The GLC 53 reaches a top speed of _____ mph when equipped with the AMG Dynamic Plus Package.

14. The GLC 53 is expected to be priced between \$68,900 and \$_____.

15. The GLC 53 engine designation is "M_____".

16. The GLC 43 model was criticized for relying on _____ engines.

17. The overboost function in the GLC 53 allows torque to increase to _____ lb-ft for 10 seconds.

18. The GLC 53 "Coupe" is characterized by its _____ roofline.

Answer

Multiple Choice: 1. Inline-six 2. 443 lb-ft 3. 167 mph 4. Drift mode 5. 4.1 seconds 6. GLC 43 and 63

True-False: 7. False

8. False 9. False 10. False 11. True 12. True

Gap-Fill: 13. 167 14. 88,100 15. 256M 16. four-cylinder 17. 472 18. sloped

Vocabulary quizzes

Multiple Choice (Select the Correct answer for each question.)

1. Which term refers to an engine that uses a turbocharger to increase power output?

- Option: Intercooler
- Option: Turbocharged
- Option: Differential
- Option: Suspension

2. Which term describes something done without permission?

- Option: Negotiating
- Option: Unauthorised
- Option: Surpassed
- Option: Cooperative

3. Which term relates to the sense of hearing?

- Option: Allure
- Option: Pertinent
- Option: Auditory
- Option: Capitulate

4. Which term means increasing rapidly?

- Option: Retaliatory
- Option: Cooperative
- Option: Surpassed
- Option: Escalating

5. Which term refers to the result of an action or situation?

- Option: Interventions
- Option: Ramifications
- Option: Consequence
- Option: Negotiating

6. Which term describes continuing firmly in a course of action despite difficulties?

- Option: Persistent
- Option: Caution
- Option: Tensions

Option: Disrupt

7. Which term means a countless or extremely great number?

Option: Dubious

Option: Myriad

Option: Indicate

Option: Intercooler

8. Which term means to point out or show?

Option: Indicate

Option: Allure

Option: Exasperation

Option: Pertinent

9. Which term refers to the system of springs and shock absorbers in a vehicle?

Option: Suspension

Option: Controversial

Option: Negotiating

Option: Capitulate

10. Which term refers to the gears used to allow each of a vehicle's driving wheels to rotate at different speeds?

Option: Interventions

Option: Differential

Option: Reverberates

Option: Capitulate

Gap-Fill (Fill in the blanks with the correct word from the vocabulary list.)

11. _____ a deal with the competing company was proving to be a challenging task.

12. The team _____ all expectations and emerged as the champions.

13. Despite their differences they refused to _____ to the demands of their opponents.

14. The two companies decided to be _____ and work together on the project.

15. The information provided was not _____ to the discussion at hand.

16. The unexpected power outage threatened to _____ the entire schedule.

17. The decision to proceed with the project was met with _____ opinions within the

team.

18. The impact of his words _____ in the room long after he had left.

19. His constant _____ with the situation was starting to affect the team morale.

20. The ongoing project was creating _____ between the different departments.

Matching Sentences (Match each definition to the correct word from the vocabulary list.)

21. The turbocharged engine was equipped with an to cool the compressed air before it enters the engine for combustion.

22. The luxurious design and exclusive features add to the of the new model.

23. Their record-breaking performance in the tournament all expectations set by the critics.

24. The decision to cut costs had unforeseen on the quality of the final product.

25. The two rival companies surprisingly decided to be and collaborate on the innovative project.

26. His involvement in the scandal raised about his integrity and honesty.

27. The government announced new policies that aimed at environmental to reduce pollution levels.

28. She proceeded with carefully analyzing the risks involved before making a decision.

29. The company responded with measures after facing unfair competition from a rival.

30. The warning signs clearly a potential hazard in the area.

Answer

Multiple Choice: 1. Turbocharged 2. Unauthorised 3. Auditory 4. Escalating 5. Consequence 6. Persistent
7. Myriad 8. Indicate 9. Suspension 10. Differential

Gap-Fill: 11. Negotiating 12. Surpassed 13. Capitulate 14. Cooperative 15. Pertinent 16. Disrupt
17. Controversial 18. Reverberates 19. Exasperation 20. Tensions

Matching sentence: 1. Intercooler 2. Allure 3. Surpassed 4. Ramifications 5. Cooperative 6. Dubious
7. Interventions 8. Caution 9. Retaliatory 10. Indicate

CATEGORY



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Author

aimeeyoung99