



What Contributes to Its High Quality?

Description

Jeep has unveiled its new Hurricane four-cylinder engine, which aims to impress enthusiasts despite a market dominated by electric vehicles. This turbocharged 2.0-litre engine produces 325 horsepower, making it one of the most powerful four-cylinder engines available.

The standout feature of the Hurricane is its Turbulent Jet Ignition (TJI). This technology uses a pre-chamber to mix fuel and air more efficiently before ignition. Unlike typical engines, which rely solely on standard combustion methods, the Hurricane incorporates advanced techniques derived from high-performance motorsport.

Additionally, the Hurricane employs twin-spark ignition, with two spark plugs per cylinder enhancing efficiency and power output. As a result, this engine is able to provide an impressive fuel economy of 27 miles per gallon on the highway, even in the relatively heavy Grand Cherokee.

Another innovation is the Variable Geometry Turbo (VGT). This feature adjusts the turbocharger's vanes to optimise air intake and improve responsiveness. The VGT reduces waste energy, maximising power and efficiency, especially during acceleration and cruising.

Furthermore, the Hurricane uses an electronic cam phaser that allows the engine to adjust its performance even while off. This enhances start-up smoothness and overall efficiency.

Overall, Jeep's Hurricane engine represents a significant step forward in internal combustion technology, blending performance with efficiency in a modern package. Future applications in sportier vehicles are anticipated, showcasing Jeep's commitment to pushing boundaries in automotive design.

Vocabulary List:

1. **Engine** /'ɛn.dʒɪn/ (noun): A machine that makes a vehicle move.
2. **Horsepower** /'hɔ:rs.pəʊər/ (noun): A measure of engine power.
3. **Turbocharged** /'tɜr.boʊ.tʃɑrdʒd/ (adjective): An engine that uses added air for power.
4. **Turbulent** /'tɜr bjə lənt/ (adjective): Confusing or chaotic.
5. **Ignition** /ɪg'nɪʃ.ən/ (noun): The start of a fire or engine.
6. **Combustion** /kəm'blʌs.tʃən/ (noun): The burning of fuel for energy.

Comprehension Questions



Multiple Choice

1. What type of engine has Jeep unveiled?
 - Option: V6
 - Option: Hurricane four-cylinder
 - Option: Electric
 - Option: Hybrid

2. How much horsepower does the Hurricane engine produce?
 - Option: 250
 - Option: 400
 - Option: 325
 - Option: 300

3. What technology does the Hurricane engine use for ignition?
 - Option: Standard ignition
 - Option: Turbulent Jet Ignition
 - Option: Laser ignition
 - Option: Diesel ignition

4. What is the fuel economy of the Hurricane engine on the highway?
 - Option: 20 miles per gallon
 - Option: 27 miles per gallon
 - Option: 30 miles per gallon
 - Option: 25 miles per gallon

5. What feature does the Variable Geometry Turbo help improve?
 - Option: Weight
 - Option: Responsiveness
 - Option: Design
 - Option: Noise

6. What type of ignition does the Hurricane engine utilize?
 - Option: Single-spark ignition
 - Option: Twin-spark ignition
 - Option: Multi-spark ignition
 - Option: Capacitive ignition



True-False

7. The Hurricane engine is designed to compete with electric vehicles.
8. The Hurricane engine is a six-cylinder engine.
9. Turbulent Jet Ignition is a standard combustion method used in all engines.
10. Jeep's Hurricane engine improves fuel efficiency.
11. The Variable Geometry Turbo is a feature that enhances air intake.
12. Jeep is not planning any future applications for the Hurricane engine.

Gap-Fill

13. The Hurricane engine produces _____ horsepower.
14. The engine achieves an impressive fuel economy of _____ miles per gallon on the highway.
15. The technology used for ignition in the Hurricane engine is called _____ Jet Ignition.
16. The Hurricane engine employs twin-spark ignition with _____ spark plugs per cylinder.
17. The Variable Geometry Turbo adjusts the turbocharger's _____ to optimise air intake.
18. An electronic cam phaser allows the engine to adjust its performance even while _____.

Answer

Multiple Choice: 1. Hurricane four-cylinder 2. 325 3. Turbulent Jet Ignition 4. 27 miles per gallon
5. Responsiveness 6. Twin-spark ignition

True-False: 7. True 8. False 9. False 10. True 11. True 12. False

Gap-Fill: 13. 325



14. 27 15. Turbulent 16. two 17. vanes 18. off

Vocabulary quizzes

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

1. What is the name of Wendy's burger that features two beef patties and five pieces of bacon?

- Option: Double Whopper
- Option: Baconator
- Option: Big Mac
- Option: Quarter Pounder

2. What popular side dish is commonly served with burgers?

- Option: Onion Rings
- Option: Potato Wedges
- Option: Fries
- Option: Salad

3. What title is given to the highest-ranking executive in a company?

- Option: Chairman
- Option: Manager
- Option: CEO
- Option: Director

4. What frozen dessert is famously associated with Wendy's?

- Option: Sundae
- Option: Ice Cream Cone
- Option: Frosty
- Option: Milkshake

5. What term describes an engine that has enhanced performance due to a turbine?

- Option: Electric
- Option: Natural
- Option: Turbocharged
- Option: Hybrid

6. What term describes how well a vehicle or engine operates?



- Option: Efficiency
- Option: Performance
- Option: Speed
- Option: Power

7. What is the process called that starts the combustion in an engine?

- Option: Combustion
- Option: Injection
- Option: Ignition
- Option: Exhaust

8. What is offered to an employee after they are laid off from their job?

- Option: Promotion
- Option: Severance
- Option: Commission
- Option: Bonus

9. What term is used to describe significant changes that disturb established processes?

- Option: Transition
- Option: Change
- Option: Disruption
- Option: Innovation

10. What term refers to the money a company generates from its business activities?

- Option: Expenses
- Option: Investments
- Option: Earnings
- Option: Assets

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

11. In business _____ refers to the rivalry between companies selling similar products or services.

12. The team showed great _____ during the project presentation.

13. Employees often negotiate their salary and _____ packages during job offers.

14. Interns may receive a _____ to help with their expenses while gaining experience.



15. The stock market can be _____ affecting investor confidence and spending.
16. Employees can benefit from stock options that _____ over a period of time.
17. Market _____ can influence consumer behavior and investment decisions.
18. His comments did not _____ with the current company policies leading to confusion.
19. Make sure to take a proper _____ of your burger to enjoy all the flavors.
20. The company managed to exceed its financial _____ for the quarter.

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

21. The introduction of smartphones caused a significant disruption in traditional communication methods.
22. The engine is often referred to as the heart of a vehicle providing the power needed to operate.
23. Combustion is the chemical process that produces energy from fuel in an engine.
24. Performance metrics are crucial for evaluating the efficiency and effectiveness of a project.
25. A turbocharged engine uses a turbine to increase the efficiency of air intake for improved power.
26. Compensation packages vary widely among different industries and positions.
27. A layoff occurs when a company dismisses employees as a cost-cutting measure.
28. Fries are a popular accompaniment to many fast food meals especially burgers.
29. The CEO of the company announced a new initiative aimed at increasing productivity and innovation.
30. Consumer sentiment can greatly influence market trends and sales forecasts.

Answer

Multiple Choice: 1. Baconator 2. Fries 3. CEO 4. Frosty 5. Turbocharged 6. Performance 7. Ignition 8. Severance 9. Disruption 10. Earnings

Gap-Fill: 11. competition 12. enthusiasm 13. compensation 14. stipend 15. turbulent 16. vest 17. sentiment 18. jibe 19. bite 20. expectations

Matching sentence: 1. disruption



2. engine 3. combustion 4. performance 5. turbocharged 6. compensation 7. layoff 8. fries 9. CEO 10. sentiment

CATEGORY

1. Business - LEVEL4

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1. B2
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7. What Makes It So Good?

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Date Created

2026/02/27

Author

aimeeyoung99

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