

## AT7 Chapter 82 A8 13 Questions

### Catalytic Converters

1. What is the purpose of a catalytic converter?

- A. To increase engine performance
- B. To reduce exhaust emissions outside of the engine
- C. To improve fuel efficiency
- D. To decrease the lifespan of the vehicle

2. Which of the following is NOT a function of the catalyst used in a catalytic converter?

- A. To create a chemical reaction
- B. To change harmful emissions into nonharmful ones
- C. To increase the temperature of the exhaust system
- D. To reduce the amount of pollutants released into the environment

3. Where is the catalytic converter installed in a vehicle?

- A. In the engine
- B. In the fuel tank
- C. In the exhaust system
- D. In the transmission

4. What material are most converters constructed of?

- A. Steel
- B. Aluminum
- C. Ceramic
- D. Plastic

5. Which of the following materials are applied on top of the converter substrate?

- A. Porous aluminum
- B. Rhodium, palladium, and platinum
- C. Carbon dioxide and water
- D. None of the above

6. What is the light-off temperature for a catalytic converter?

- A. Close to 100°F
- B. Close to 200°F
- C. Close to 300°F
- D. Close to 500°F

7. What is the main cause of premature converter failure?

- A. Excessive temperatures
- B. Physical damage
- C. Contamination
- D. All of the above

8. What is the maximum back pressure at idle that a catalytic converter should have?

- A. Less than 0.5 PSI
- B. Less than 1.0 PSI
- C. Less than 1.5 PSI
- D. Less than 2.0 PSI

9. How can you determine if the substrate inside a catalytic converter is broken?

- A. By measuring exhaust system back pressure
- B. By performing a tap test
- C. By monitoring catalytic converter performance with a heated oxygen sensor
- D. By repairing engine problems as soon as possible

10. What is the best method to test a catalytic converter?

- A. Check intake manifold vacuum at 2,500 RPM.
- B. Measure inlet and outlet temperatures with an infrared pyrometer.
- C. Conduct an oxygen level and snap-throttle test.
- D. Check the catalytic converter's cerium content.

11. What should happen to the temperature of a properly working catalytic converter?

- A. It should decrease by at least 10%.
- B. It should increase by at least 10%.
- C. It should remain the same
- D. It should increase by less than 10%.

12. What should be checked when a defective catalytic converter is found?

- A. The tires and brakes.
- B. The suspension system.
- C. The ignition and fuel systems.
- D. The transmission fluid

13. What guidelines does the EPA have for catalytic converter replacement?

- A. No guidelines.
- B. Guidelines for the type of vehicle only.
- C. Guidelines for the type of catalytic converter only.
- D. Strict guidelines for catalytic converter replacement.

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1. B
2. C
3. C
4. C
5. B
6. D
7. D
8. C
9. B
10. B
11. B
12. C
13. D