

AT7 Chapter 65 A7 23 Questions

Refrigerants Recovery, Recycling, and Recharging

1. What organization has established guidelines and specifications for equipment and procedures related to automotive air-conditioning systems?

- A. EPA
- B. NHTSA
- C. SAE
- D. OSHA

2. What can occur if an unknown refrigerant is recovered from an automotive air-conditioning system?

- A. The refrigerant can become contaminated
- B. The system can become overcharged
- C. The system can become undercharged
- D. The refrigerant can leak out of the system

3. How is refrigerant quality defined?

- A. Based on color
- B. Based on weight
- C. Based on percentage of purity
- D. Based on temperature

4. What should be used to detect cross-contamination in an automotive air-conditioning system?

- A. A refrigerant label
- B. A service fitting
- C. An electronic refrigerant identifier
- D. A refrigerant recovery unit

5. Why is evacuation necessary when working on an automotive air-conditioning system?

- A. To remove any air and moisture that may have been trapped in the system
- B. To add more refrigerant to the system
- C. To detect cross-contamination in the system
- D. To repair or replace system components

6. What can moisture in an automotive air-conditioning system lead to?

- A. Compressor failure
- B. Refrigerant leaks
- C. Overcharging of the system
- D. Undercharging of the system

7. What can cause contamination in an automotive air-conditioning system?

- A. Refrigerant leaks
- B. Overcharging of the system
- C. Chemicals intended to seal refrigerant leaks
- D. Undercharging of the system

8. What is Quick Detect made by Neutronics used for?

- A. To detect refrigerant leaks
- B. To detect cross-contamination
- C. To detect sealant in refrigerant
- D. To detect system damage or failure

9. What does service and repair of automotive air-conditioning systems involve?

- A. Identifying refrigerant, recovery and disposal of contaminated refrigerant, repair and replacement of system components, and evacuating and recharging the system
- B. Identifying refrigerant, adding more refrigerant to the system, and repairing or replacing system components
- C. Identifying refrigerant, detecting cross-contamination, and evacuating and recharging the system
- D. Identifying refrigerant, repairing or replacing system components, and detecting system damage or failure

10. Why is it important to not add any other chemical besides refrigerant and refrigerant oil to an automotive air-conditioning system?

- A. It can cause system damage or failure
- B. It can improve system performance
- C. It can reduce the amount of refrigerant needed
- D. It can improve the quality of the refrigerant

11. What do most refrigerant recovery units contain?

- A. A low and high side service hose
- B. A refrigerant label and inspection sticker
- C. A refrigerant identifier and sealant detector
- D. A refrigerant leak detector and vacuum pump

12. What is the purpose of RRR equipment?

- A. To release refrigerant into the atmosphere
- B. To automatically recycle refrigerant
- C. To flush the system after a compressor failure
- D. To add oil to the system

13. Why is flushing necessary after a compressor failure?

- A. To remove debris
- B. To add oil to the system
- C. To lubricate O-ring seals
- D. To prevent contamination

14. What must be used responsibly when performing a flush?

- A. Approved flush solvents
- B. Recycled refrigerant
- C. Low-cost injectors
- D. Sealants and stop leaks

15. What should be done to prevent contamination during repairs?

- A. Use low-cost injectors
- B. Seal all openings
- C. Replace Schrader valves
- D. Use Type II sealants

16. What must be done before assembling O-ring seals?

- A. Flush the system
- B. Replace the compressor
- C. Lubricate the seals
- D. Evacuate the system

17. What is unique about service fittings for each refrigerant type?

- A. They are all the same
- B. They require different tools
- C. They are interchangeable
- D. They are not necessary

18. What is the purpose of service valve caps?

- A. To add oil to the system
- B. To prevent contamination
- C. To replace Schrader valves
- D. To recycle refrigerant

19. When should Schrader valves be replaced?

- A. When the system is open after refrigerant recovery
- B. When the system is flushed
- C. When the compressor fails
- D. When the system is recharged

20. What can cause plugging in the system after a failed compressor?

- A. Debris
- B. Low oil levels
- C. High pressure
- D. Low pressure

21. What can happen if sealants and stop leaks are used?

- A. They can successfully repair the A/C system
- B. They can damage the A/C system
- C. They can improve the performance of the A/C system
- D. They can improve the refrigerant purity

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1. C

2. A

3. C

4. C

5. A

6. A

7. C

8. C

9. A

10. A

11. A

12. B

13. A

14. A

15. B

16. C

17. B

18. B

19. A

20. A

21. B