

Name: _____

Date: _____

1. What is the primary function of hydraulic fluid in a power steering system?
 - A. Lubrication of the pump
 - B. Cooling the system
 - C. Transmitting force
 - D. Cleaning internal components

2. High-pressure hoses in a power steering system are necessary because:
 - A. The system can reach pressures up to 1,400 PSI
 - B. They are more durable than low-pressure hoses
 - C. They can handle the thermal expansion of the fluid
 - D. They prevent fluid leaks more effectively

3. Which component signals the computer to increase idle speed to prevent stalling during turns at low speeds?
 - A. Pressure-relief valve
 - B. Power steering pressure switch
 - C. Rotary valve
 - D. Flow control valve

4. What type of lubrication is used in integral power steering gears?
 - A. SAE 80W-90 gear lube
 - B. Chassis grease (NLGI #2)
 - C. Power steering fluid in the system
 - D. Molybdenum disulfide

5. Electronically controlled variable-assist power steering systems adjust the amount of boost by:
 - A. Varying the pump output orifice size
 - B. Speeding up or slowing down the power steering pump
 - C. Changing the flow of fluid through the steering gear
 - D. Bypassing some of the fluid back into the reservoir

6. What can cause hard steering in a vehicle with a hydraulic power-assisted steering system?
 - A. Low tire pressure
 - B. Slipping power steering pump drive belt
 - C. Low or contaminated power steering fluid
 - D. Any of the above

7. What is the proper procedure for bleeding air from a power steering system?
 - A. Lift the front wheels off the ground before bleeding
 - B. Turn the steering wheel left and right with the engine off
 - C. Both A and B
 - D. Neither A nor B

8. When inspecting a power steering system, you should check for:

- A. Power steering fluid level
- B. Condition of the drive belt
- C. Condition of the hoses
- D. All of the above

9. If the highest pressures during a pressure test of a hydraulic assisted power steering system are greater than 50 PSI of each other, this indicates a problem with the:

- A. Pump rotor
- B. Pump vanes
- C. Flow control valve
- D. Defective hose

10. Where can you find the specified power steering fluid for a vehicle?

- A. On the cap of the power steering reservoir
- B. In the owner's manual
- C. On the side of the power steering pump
- D. In the vehicle service manual

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Chapter 117

Multiple Choice Quiz A

Answer Key

1. C

2. A

3. B

4. C

5. D

6. D

7. C

8. D

9. C

10. B