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Question: 1

What is the discard limit for most truck and trailer brake drums?

- A. 0.050"
- B. 0.020"
- C. 0.030"
- D. 0.090"

Answer: D

Explanation:

Brake drums must be measured to ensure they can be reused. For most truck and trailer brake drums, the maximum service limit is 0.120", the machine limit is 0.060" and the discard limit is 0.090".

Question: 2

Technician A says air switches are adjustable. Technician B says contaminated air lines can prevent the air switch from operating properly. Who is correct?

- A. Both A and B
- B. Neither A nor B
- C. Technician A
- D. Technician B

Answer: D

Explanation:

Only technician B is correct. Before replacing the air switch, the lines should be checked for contamination, which can prevent the switch from operating properly. Technician A is wrong because the switches are not adjustable.

Question: 3

The DPF converts particulate matter into what?

- A. N₂ and NO_x
- B. CO and CO₂
- C. CO₂ and N₂
- D. CO and HC

Answer: C

Explanation:

Most light-duty diesel engines produced after 2007 have an emission system that features a diesel oxidation catalyst (DOC) and a diesel particulate filter (DPF). The DPF is used to heat particulate matter and turn it into CO₂ and N₂.

Question: 4

Toe-out on turns is being checked. Both the front end alignment angles and toe settings are correct, but the toe-out measurement is significantly incorrect. Which of the following is the most likely cause?

- A. The ball joints are worn
- B. Both steering arms are bent
- C. The tie rods are worn
- D. The steering knuckles are bent

Answer: B

Explanation:

Toe-out turns are checked using two turning plates equipped with measurement devices. If the outer wheel angles from side to side vary more than 1 degree, further diagnosis is required. If both the front end alignment angles and toe settings are correct, but the toe-out measurement is significantly incorrect, suspect that both steering arms are bent.

Question: 5

Electrical connector diagnosis is being discussed. Technician A says weather pack seals can be probed through. Technician B says failed molded-on connectors typically require complete replacement of the connector. Who is correct?

- A. Both A and B
- B. Neither A nor B
- C. Technician A
- D. Technician B

Answer: D

Explanation:

Only technician B is correct; failed molded-on connectors typically require complete replacement of the connector. Technician A is wrong because weather pack seals should never be probed through. To test a connector with this type of seal, a special connector adapter should be used.

Question: 6

When inspecting a lift axle, check that toe measurement is:

- A. $1/8 \pm 1/16$
- B. $1/2 \pm 1/16$
- C. $1/4 \pm 1/6$
- D. $1 \pm 1/16$

Answer: A

Explanation:

Inspection of the lift assembly should include checking that the toe-in adjustment is set properly ($1/8 \pm 1/16$ measured at the tire centers).

Question: 7

Technician A says that the high side of the A/C system will normally be cool or cold. Technician B says that the low side of the A/C system contains the dryer.

Who is correct?

- A. Both A and B
- B. Neither A nor B
- C. Technician A
- D. Technician B

Answer: B

Explanation:

Both technicians are incorrect. The high side of the A/C system will normally be warm or hot. On the other hand, the low side of the A/C system will normally be cool or cold. This is because temperature increases with pressure.

The dryer is located on the high side of the A/C system, along with the condenser.

Question: 8

Most speedometers receive their information from which type of sensor?

- A. Transducer
- B. Hall effect
- C. Magnetic pickup
- D. Reed switch

Answer: C

Explanation:

Most speedometers and tachometers receive their information from magnetic pickup sensors. These sensors produce a magnetic field near a rotating wheel and generate a voltage signal as the wheel is rotated.

Question: 9

Technician A says the engine must be re-timed after replacing the power steering pump drive on a truck with a diesel engine. Technician B says a bad power steering pump can be identified by score marks on the pump drive gear. Who is correct?

- A. Both A and B
- B. Neither A nor B
- C. Technician A
- D. Technician B

Answer: D

Explanation:

Only technician B is correct. A bad power steering pump can be identified by score marks on the pump drive gear. Technician A is wrong because there is no need to re-time the engine after replacing the power steering pump drive on a diesel-powered truck.

Question: 10

An oil sample should be taken:

- A. At the midpoint of drainage
- B. At the end of drainage
- C. At the beginning of drainage
- D. Once all of the oil has drained into the drain pan

Answer: A

Explanation:

An engine oil sample is taken to inspect for contamination. The sample should be taken at the midpoint of drainage to ensure the best representation of the oil's condition.

Question: 11

A starter current draw test is being performed. Technician A says low current draw may be caused by excessive resistance in the starter circuit. Technician B says high current draw may be caused by an internal engine problem. Who is correct?

- A. Both A and B
- B. Neither A nor B

- C. Technician A
- D. Technician B

Answer: A

Explanation:

Both technicians are correct. High starter current draw indicates a worn starter or internal engine problem. On the other hand, low starter current draw indicates excessive resistance in the starter circuit.

Question: 12

What should be used for u-joint lubrication?

- A. Silicone grease
- B. Multi-purpose grease
- C. Lithium-based grease
- D. Fluoroether-based grease

Answer: C

Explanation:

Lithium-based, extreme pressure grease should be used when lubricating u-joints. Improper u-joint lubrication can lead to noise from the joint, as well as joint damage.

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