Light Vehicle Diesel Engines (Test A9) Practice Test Questions and Answers

1. Approximately at what temperature does standard DEF begin to freeze?

A) 12°F (-11°C)
B) 32°F (0°C)
C) -40°F (-40°C)
D) -20°F (-29°C)

2. Diesel exhaust fluid (DEF) used in SCR systems is made of which mixture?

A) 50% urea and 50% ethanol
B) 10% ammonia and 90% distilled water
C) 32.5% ammonium nitrate and 67.5% coolant
D) 32.5% urea and 67.5% deionized water

3. What is the function of the bypass valve in a full-flow engine oil filter?

A) To maintain a minimum oil level in the filter housing
B) To let oil flow around a clogged filter element and avoid oil starvation
C) To increase oil pressure after the filter
D) To send filtered oil directly to the turbocharger only

4. When checking a diesel cylinder head for warpage, which method is correct?

A) Lay a straightedge on the machined surface and use a feeler gauge to measure gaps lengthwise, crosswise and diagonally
B) Measure the thickness of the head at the center only with a dial caliper
C) Press a bearing plastigage strip across the deck and measure its width
D) Spray the surface with dye penetrant and look for linear indications

Answers: 1-A 2-D 3-B 4-A

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