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Book Information

Modern Diesel Technology: Diesel Engines

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Exam Topics

I. Safety.

II. Hand and Shop Tools.

III. Engine Fundamentals.

IV. Piston Assemblies, Crankshafts, Flywheels, and Dampers.

V. Timing Geartrains, Camshafts, Tappets, Rockers, and Cylinder Valves.

VI. Cylinder Blocks, Liners, Cylinder Heads, Rocker Housings, Oil Pans, and Manifolds.

VII. Lubricating Oil and Lubrication Systems.

VIII. Coolant and Cooling Systems.

IX. Intake and Exhaust Systems and Turbochargers.

X. Engine Brakes.

XI. Engine Service Procedure.
XII. Engine Removal, Disassembly, Cleaning, Inspection, and Reassembly.

XIII. Fuel Subsystems.

XIV. Injector Nozzles.

XV. Engine Management Electronics.

XVI. Diesel Fuel Injection Systems.

XVII. Emissions.

Sample Questions
1. Which of the following is NOT part of the exhaust system?
   a. catalytic converter
   b. turbocharger
   c. pyrometer
   d. charge air cooler

2. What is the primary advantage of a cracked connecting rod?
   a. lighter weight
   b. less machining required
   c. no friction bearings required
   d. perfect alignment of rod cap to rod

3. Which type of cylinder head injector sleeve would be more likely to leak coolant into
   the engine cylinder?
   a. stainless steel
   b. copper
   c. integral
   d. composite

4. Which organization grades engine oils by viscosity?
   a. SAE
   b. API
   c. TMC
   d. ATA

5. Which type of fire extinguisher is suitable for extinguishing all four types of fire?
   a. Water
   b. Carbon dioxide
   c. Soda-acid
   d. Dry chemical