

Automotive Technology 7th Edition
Chapter 31: Engine Blocks
Short Answer Quiz

Name:

Date:

1. Describe the function and importance of the cooling passages around the cylinders in engine blocks.

2. What challenges can arise from engine block designs where the cylinder walls are cast together without a water jacket between the cylinders?

3. What is the primary material used to strengthen cylinder walls in some Honda/Acura engines, and what are its main properties?

4. In what situations are the main bearing caps in engine blocks particularly crucial?

5. What is the function of a girdle in relation to the engine block's main bearing caps?

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6. Why might main bearing caps have cast numbers or markings on them?

7. Explain the significance of having two bolts to hold the main bearing cap in place on standard production engines.

8. What does "LHD" stand for in the context of engine blocks, and why is its distinction important?

9. How did the introduction of oxygen sensors in Chevrolet small block V-8 engines around 1980 affect the location of the oil dipstick?

10. Why might some engine blocks be designed with both right-hand and left-hand oil dipstick pads?