

Automotive Engines 10th

Quiz 21A

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

1. Technician A says that a clicking sound indicates a loose torque converter. Technician B says that many engine-related problems make a characteristic noise. Which technician is correct? 1. _____
 - A) Technician A only
 - B) Technician B only
 - C) Both technicians A and B
 - D) Neither technician A nor B

2. Which of these smoke types indicates oil being burned in the combustion chamber? 2. _____
 - A) Blue
 - B) Black
 - C) White
 - D) Grey

3. The pressure measured in the exhaust system should not be more than _____ PSI. 3. _____
 - A) 1.5
 - B) 2.5
 - C) 14.7
 - D) 21

4. A restricted exhaust system will cause manifold vacuum to _____ as pressure in the exhaust system _____. 4. _____
 - A) increase; increases
 - B) decrease; decreases
 - C) decrease; increases
 - D) None of these are correct

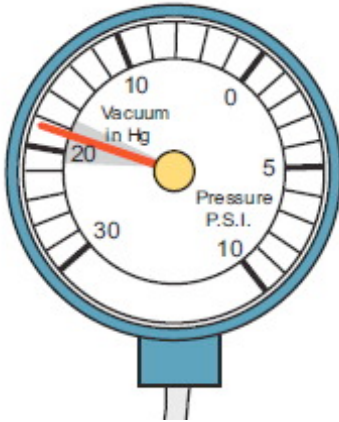
5. A smoothly operating engine depends on _____. 5. _____
 - A) high compression on most cylinders
 - B) equal compression between cylinders
 - C) cylinder compression levels above 100 psi (700 kPa) and within 70 PSI (500 kPa) of each other
 - D) compression levels below 100 psi (700 kPa) on most cylinders

6. The low oil pressure warning light usually comes on _____. 6. _____
 - A) when an oil change is required
 - B) when oil pressure drops dangerously low (4 to 7 psi)
 - C) when the oil filter bypass valve opens
 - D) when the oil filter anti-drain back valve opens

7. Most mechanical engine problems are caused by which of these? 7. _____
 - A) Overcooling
 - B) Overheating
 - C) Fuel Loss
 - D) High RPM

8. A good engine should produce how much compression during a running (dynamic) compression test at idle? 8. _____
- A) 150-200 PSI
 - B) 100-150 PSI
 - C) 60-90 PSI
 - D) 30-60 PSI

9. The vacuum reading shown was taken from an engine at idle speed. The reading indicates that _____. 9. _____



- A) the timing is retarded
 - B) the engine is in good mechanical condition
 - C) a valve is out of adjustment
 - D) the idle speed is too low
10. Technician A says that a compression test can be used to test the condition of connecting rods. Technician B says that a cylinder leakage test fills the cylinder with compressed air, and the gauge indicates the percentage of leakage. Which technician is correct? 10. _____
- A) Technician A only
 - B) Technician B only
 - C) Both technicians A and B
 - D) Neither technician A nor B

Answer Key

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1. B
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2. A
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