Checking Clearance When a Ring Warms

Scoring guide · one credit per question · review written work against each rubric

Checking Clearance When a Ring Warms

Question 1

Choice (1)

The opening is 10.00 mm and the cylinder is 9.98 mm. The difference is 0.02 mm.

Question 2

The opening would be 10.06 mm and the cylinder 10.07 mm. The cylinder would be 0.01 mm larger than the opening, so it would not pass through freely.

Question 3

The ring opening increases by 0.06 mm. The fit is lost because the cylinder expands by even more, not because the hole becomes smaller.

Question 4

The warmed opening is 10.06 mm. To retain 0.01 mm of clearance the cylinder must end at or below 10.05 mm. Starting at 9.98 mm, it can grow by at most 0.07 mm.