Number of moles of O₂ in a cylinder



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An internal combustion engine works on the principle that a small volume of fuel is combusted to create a hot gas. When the piston in a 0.5 liter cylinder is compressed the volume is very small (approx. 0.02 liters). This is typical for a 6 cylinder 3.0 liter engine. How many moles of O_2 gas are present in that volume at 298 K?