

- 17** A small diesel engine uses a volume of  $1.5 \times 10^4 \text{ cm}^3$  of fuel per hour to produce a useful power output of 40 kW. It may be assumed that 34 kJ of energy is transferred to the engine when it uses  $1.0 \text{ cm}^3$  of fuel.

What is the rate of transfer from the engine of energy that is wasted?

- A** 102 kW      **B** 142 kW      **C** 182 kW      **D** 470 kW