A railway locomotive pulling a train delivers a constant power of 2.0×10^6 W to the wheels. The resistive forces are constant at all speeds. The maximum speed that the train can achieve on a level track is $40\,m\,s^{-1}$.

What is the resultant force accelerating the train when it is travelling at $10\,m\,s^{-1}$?

A 5.0×10^4 N **B** 1.5×10^5 N **C** 2.0×10^5 N **D** 2.5×10^5 N