

# 1: Automotive diesel piston

## Operating environment

- Operating temperature up to 300 °C in piston crown area
- Active forces are mostly in the main cylinder axis direction
  - High pressures, several hundred (< 200) atm/bar
  - High acceleration from combustion process
- Batch size 6000 per year

### **Material demands:**

- Preferably low weight
- Can either withstand or mitigate thermal stresses

Part description:

Automotive diesel piston

