Power / Torque

Full load \rightarrow Low-end-torque, continuous / max. power $M_{\rm M}$ in Nm, $p_{\rm me}$ in bar, @ $n_{\rm M}$ in min⁻¹, $P_{\rm e}$ in kW Part load / idle \rightarrow Uniformity, combustion stability $\Delta p_{\rm mi}$ in bar Transient behavior \rightarrow Response characteristics at load change ${\rm d}p_{\rm mi}/{\rm d}t$

Emissions (vehicle / application specific)

EU-Norm (PKW: EU 1-6 a-d, RDE, NFZ: EU I-VI)

USA (EPA, CARB) (Tier1, Tier2, TLEV, LEV, ULEV, SULEV, ZEV)

....

Voluntary limits (Trucks in Europe)

On-Board-Diagnostics (US-OBD, EOBD)

Economy

Fuel consumption in g/kWh in

Full load \rightarrow max. power

Part load \rightarrow typical map point (e. g. 2000 min⁻¹ / 2 bar p_{me})

Idle

Minimum $\rightarrow b_{\rm e,min}$

Oil consumption in g/kWh pro oil-changing interval

Maintenance interval / service-costs → Oil filter-, spark-plug change, valve lash adjustment, ...