

Heavy-duty H₂-Diesel Dual Fuel Engines

- Heavy-Duty Diesel Engines
- 13-Mode ESC Cycles
- Load: 10-100%
- Engine Speed: 1200 – 1800 RPM
- $H_2/(H_2+Air)=0\sim 7.5\%$ Vol.
- Emissions of PM, NO_x, CO, THC and H₂
- Brake Thermal Efficiency
- Combustion Analysis

Results and Discussions

- Reduce PM Emissions
- Increase NO_x Emissions
- Improve the Brake Thermal Efficiency with the Addition of a Large Amount of H₂ at Medium to High Load
- Integration of On-Board H₂ Production Reduce the Brake Thermal Efficiency