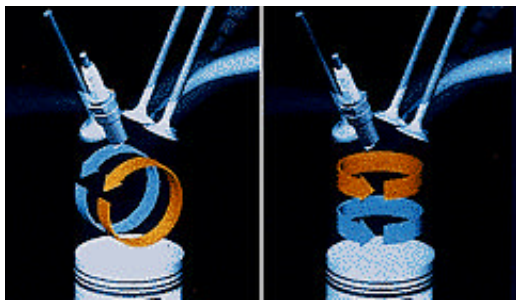
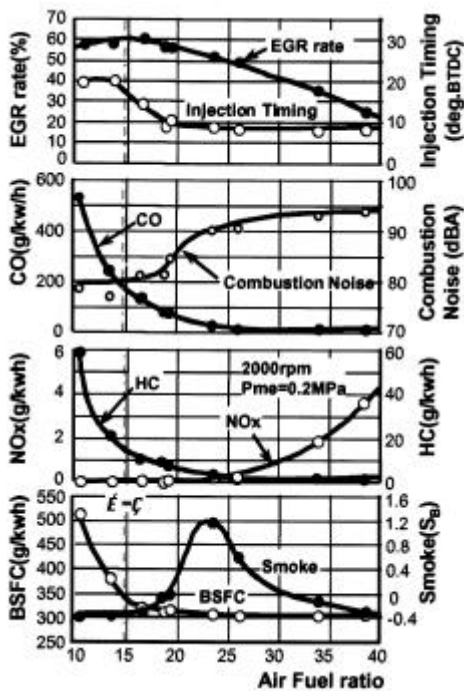


ADVANCED PERFORMANCE TESTING part 2

A one-day course

The object of the course. To further develop with client engineers the advanced skills that are required in fixing definitive, fuel, ignition and emission levels.

Course Contents:



- ?? Combustion in the Spark and Compression Ignition Engine
 - ?? The four-stroke principle
 - ?? The two stroke principle
 - ?? Combustion analysis
 - ?? Gaseous emissions
 - ?? Cylinder pressure
- ?? Wide Open Throttle Power
 - ?? The need for stabilisation
 - ?? Air Flow
- ?? Swirl
 - ?? Burn rates
 - ?? Advanced fuel loops
 - ?? Advanced ignition loops
- ?? Part Throttle Considerations
 - ?? The engineering compromise
 - ?? Burn stability
 - ?? BSFC
 - ?? AFR
 - ?? EGR
- ?? Economy
 - ?? AFR
 - ?? Friction
 - ?? Heat exchange
 - ?? Emissions
- ?? Emission Reduction
 - ?? Oxygen sensors Catalyst formulations
 - ?? Lean burn/Lambda closed loop
 - ?? EGR Particulate traps
 - ?? Design considerations
- ?? Valve layout/porting/swirl
- ?? Ladder frame/stiffness
- ?? Noise Emission
 - ?? Method of measuring
 - ?? Key design considerations