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CRDI system includes Engine Control Unit, Fuel Injectors, High Pressure Pumps and various Sensors. Pump driven by camshaft provides high pressure fuel to all injectors. This pressure level is controlled by ECU depending upon operating speed/power. Each injector has a solenoid valve to accurately control the fuel injection start and duration.

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The combustion performance of a conventional rail diesel engine was investigated by measuring the exhaust gas with the respect to the number of injector holes, fuel type, and the use of exhaust gas recirculation (EGR), to provide a detailed reduction of environmental pollutants. It was found that a six- or seven-hole injector was more effective than a five-hole injector for reducing the ...

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