

Product Name :
Automotive Diesel Engine

Product Code :
ALABS-A151-003



Description :

Automotive Diesel Engine

- A 4-cylinder, water cooled, Bio diesel compatible, 1.9 litre Volkswagen diesel engine, complete with services and ancillaries required to run the engine in a laboratory environment
- Variable load eddy current dynamometer which acts as a brake, allowing direct measurement of engine torque.
- Supported on strong steel framework via flexible mounts. The frame also houses the fuel tank, battery and electrical enclosures.
- Protected by guards around the moving parts. Safety interlocks and emergency stops are provided.
- Supplied with the engine manufacturer's diagnostic software.
- Starter, throttle and dynamometer can be controlled from a computer
- Standard instrumentation includes sensors for:

- Engine speed

- Torque
 - Air flow
 - Cooling water temperature (inlet and outlet of heat exchanger)
 - Cooling water flow
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- Optional engine indicator set for measuring cylinder pressure through the cycle

Features:

- 4-cylinder (Biodiesel Compatible) automotive engine
- Eddy current dynamometer to vary engine load
- Plotting of characteristic torque and power curves against engine speed
- Full software control of system, including load and throttle settings
- Closed loop software control of brake loading to maintain constant engine speed during measurements
- Secondary water cooling by heat exchanger, with measurement of temperature change and flow rate
- Engine manufacturer's diagnostic software (displays fuel injection characteristics)
- Remote emergency stop, and facility for safety interlocks
- Optional measurement of cylinder pressure, and displaying this on a p-v diagram



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