

CASE STUDY



Case #D0037

PPE seals - the driving force in reducing harmful emissions from diesel engines.

Precision Polymer Engineering (PPE) has worked closely with Alstom Paxman Diesels to develop a special valve stem seal which has reduced engine blow-by by as much as 25% in trials. Further trials are continuing and are expected to confirm a reduction in lubricating oil consumption, with the accompanying improvement in engine exhaust emissions.

Custom-designed using high-performance fluorocarbon materials, the seal also offers high temperature resistance and withstands exposure to oil mist, burnt Diesel gases and contact abrasion from the valve stem. It is not unusual for these engines to run in excess of 120 hours in a week.

The development programme is key to Paxman's commitment to Diesel engines that have as low an impact upon the environment as possible and is just one of a number of projects currently under way.