

Task 1.1: Development of engines for extreme load conditions

Objectives: to develop and test components specially designed for operation at extreme load conditions

Progress Highlights:

- Simulations and component design completed
- Preparation of EVE engine for new construction
 - New balancing for crank train
 - New intake and exhaust piping
 - EVE disassembly, checking and maintenance
- Acquiring new auxiliary parts completed; fuel injection, hydraulic valve actuation, etc.
- Manufacturing of new high pressure parts:
 - Piston completed
 - Cylinder head completed
 - Connection rod and gudgeon pin completed
- Parts delivered to TKK, new EVE construction in assembly for engine start in April 2010



High pressure components manufactured

Partners: **A?** Aalto University

COMPONENTA

WÄRTSILÄ