



MAN B&W Diesel

Hercules Task 9.2 Status and Progress, March 2005



General objective:

To optimize the tribological situation with respect to frictional loss

Detailed objectives:

- Identification of tribological measures having the highest potential to improve the engine efficiency
- Development of calculation code for tribological behaviour
- Development of engine components with reduced friction losses
- Demonstration of functionality and reliability by means of engine / test rig verification
- On line control of cylinder condition and have optimum cylinder lubrication



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Selected results

- Evaluation of frictional loss in engine (Piston Ring)
- Friction tester (Piston Ring)
- Specification of assemblies with the highest friction losses using results of the feasibility study.
- Specification of materials for bearing shells with less friction.

