

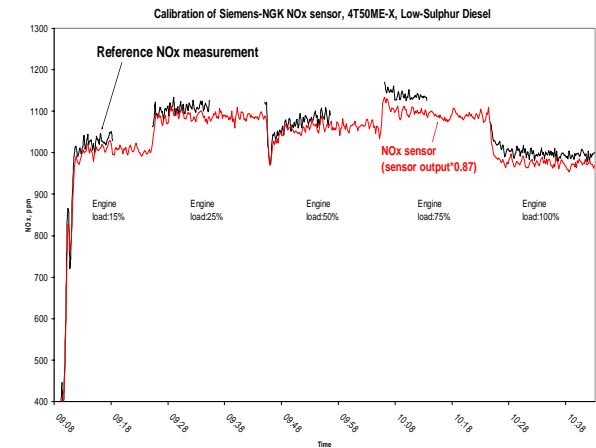
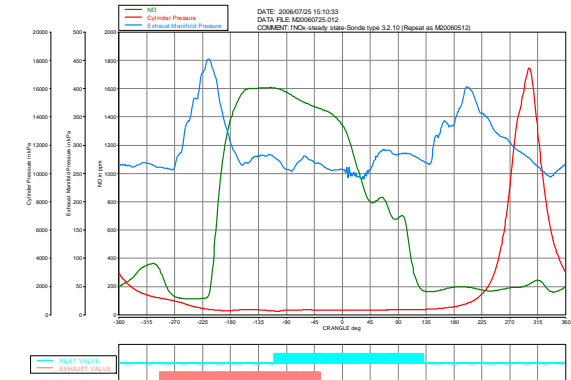
TASK 8.2: New measurement methods

Objectives

- Development of emissions measuring technologies for fast measurements from individual engine cylinders of a multi-cylinder marine diesel engine
- Develop practical and reliable methods for emission monitoring

Highlights

- Development of a sample transfer tube system for ultra-fast NO measurements just downstream of the exhaust valve
- Special test bench for evaluation of the measuring system prior to installation on engine
- Results from engine tests and analysis of fast NO measurements as soon as the exhaust valve opens
- Comparison test between FTIR and conventional IMO certified emission measurement equipment
- Calibration and long-term testing of online ship-board NOx measuring equipment



Calibration of Zirconium dioxide NOx sensor, reference is HCLD measurement. Engine 4T50ME-X

