

# Performance Monitor

## Idea, objective:

Big 2 stroke diesel engines up to 80.000 kW power must be driven in an optimized working point into the performance diagram of the engine. So it is possible to monitor the distance to the overload conditions, optimize the fuel consumption and judge the stress of the engine. It is necessary to calculate the performance diagrams for each engine. During the test bench trial it is not possible to measure all points.

## Result:

- Development of protocol form to get all necessary
- Development of a neuronal network to calculate the engine performance diagram
- Development of an algorithm to calculate the current working point
- Development of a algorithm to calculate the propeller curve and the current specific fuel consumption
- Test of the system aboard several ships and simulation centres