




Diagnostic Toolbox

for Kyma Ship Performance



- **Save fuel oil**
- **Lower operational costs**
- **Reduce emissions**

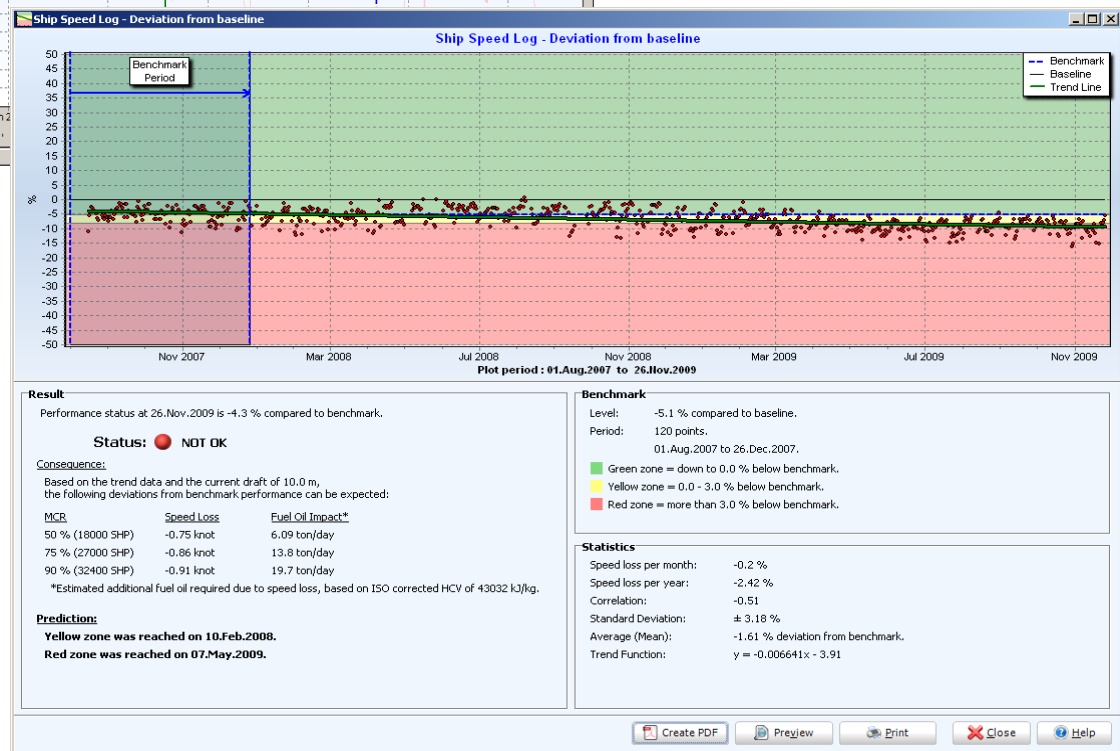
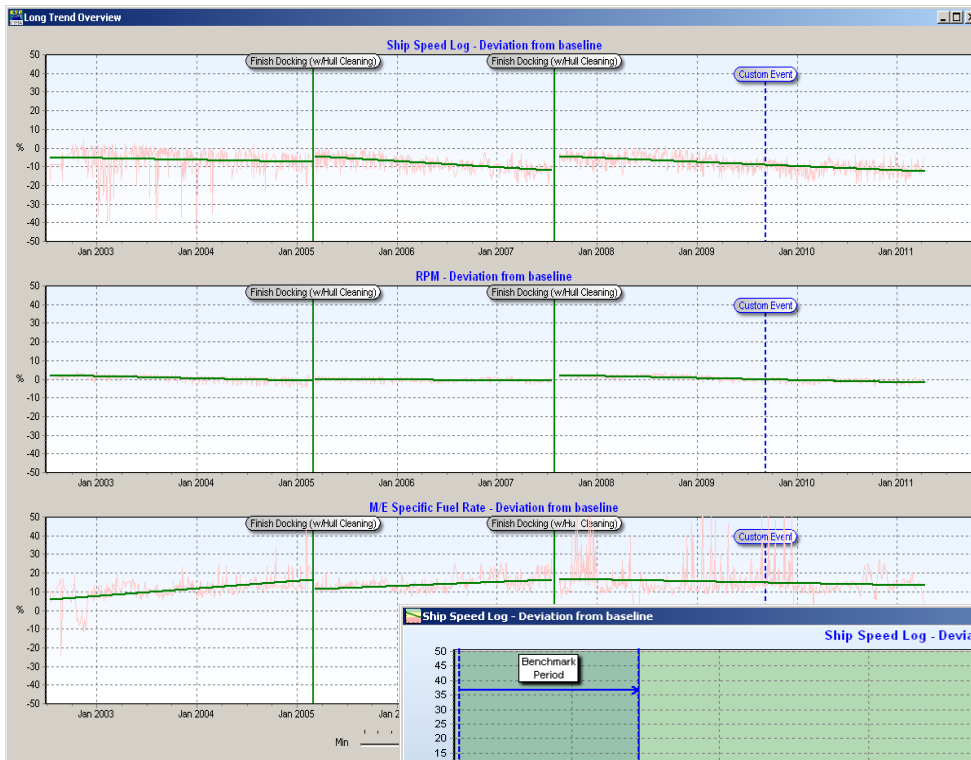
An optional feature of the Kyma Ship Performance system is the Diagnostic Toolbox. With this, the performance trend data collected over the years can be used to analyze, in detail, the changes in ship performance. The result of the analysis will give a simple indication revealing how the ship is *currently* performing:

-  **OK** The ship is performing within an accepted deviation from benchmark level.
-  **OBSERVE** The ship is performing ok, but the trend is moving towards an unaccepted deviation from benchmark.
-  **NOT OK** The ship performance is poor compared to benchmark. It is recommended to perform some action to improve performance.

Among the parameters used for the performance analysis are:

- Ship speed loss
- Change of propeller RPM
- Change of M/E SFR

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This additional software module can be installed on all new and existing KSP systems and will make available new features such as:

- Event Setting. Trend line is broken up into periods between events e.g. hull cleaning, propeller brushing, docking, which cause a change in the trend line. Events are manually set by the operator.
- Linear regression analysis of trend data between events.
- Automatic calibration of the benchmark level after each new event.
- Provides the operator with important information about the speed loss and the impact on fuel consumption.
- Statistical details of trend curves.
- Performance status as calculated from the trend analysis will be flagged on all reports by color coding (Green/Yellow/Red).