

# How can you reduce your maintenance costs?



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Legislation, new directives like TMSA (Tanker Management Self Assessment) and rising fuel costs, all make it increasingly challenging to minimise your costs and maximise your profit.

The Mimic condition monitoring system addresses the problem with simple, cost effective and easy to use technology. Condition monitoring has been traditionally difficult to implement in the shipping world due to the expertise required to understand all the information that is gathered.

Mimic has been designed solely for the shipping industry by marine engineers with practical hands on experience of the day to day problems of operating a ship and all of the products in the portfolio have one aim – to help you reduce the costs of maintenance.

## Electronic Log sheets

Electronic Log sheets includes Mimic's trademark core performance module, allowing not just the recording of key equipment data but the manipulation of this data to be displayed as key equipment performance information. Mimic's electronic log sheet can also be interfaced with most standard alarm and monitoring systems to enable automatic collection and trending of key process and performance information. The Mimic core performance module utilises this data to produce machinery performance reports that meet the requirements of the Classification Societies.

## Benefits include:

- Clear, concise and familiar data reporting, allowing immediate detection of a deteriorating trend
- Reduced errors in logged data
- Engine Log sheets can be simply emailed to the Superintendent
- Less time is spent manually producing logs enabling more time for engineering tasks

## Gear Box Monitoring

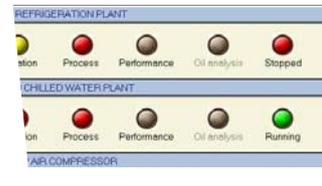
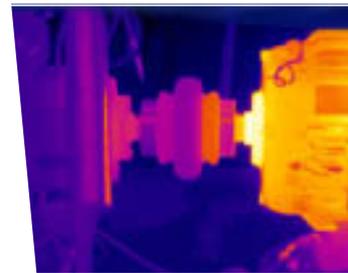
The equipment in the drive train on a ship is usually the most critical equipment for obvious reasons. The engine is usually adequately monitored but often the gearbox is overlooked. Gearbox failures are traditionally difficult to detect early and often by the time a problem is detected it may be too late.

Mimic has designed a simple cost effective technique based on the analysis of stress waves emitted from gearbox bearings and gearwheels that can detect a developing fault at a very early stage.

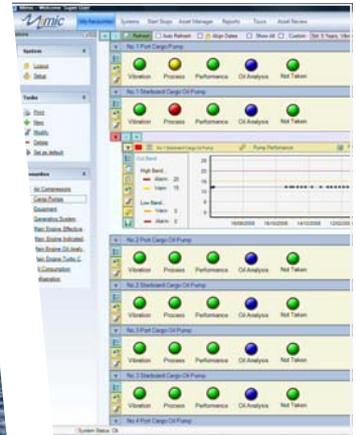
Stress wave analysis technology is a technique for measuring friction, shock, and dynamic load transfer between moving parts in rotating machinery.

## Benefits include:

- Detection of wear and damage at the earliest stages
- Predict a point of failure from parameter trending.



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## Vibration Monitoring

Monitoring vibration is the technology that engineers may think of when talking condition monitoring. Traditionally a engineer would need to be very highly trained to interpret the reams of complicated graphs and data that vibration monitoring relies upon.

Mimic vibration monitoring has been designed with the ships engineers in mind and does all the hard work for you. Simple traffic light indicators and user specific views allow the engineer to not only detect a problem early but at the touch of a button tells the engineer what the likely problem is and how to fix it!

## Benefits include:

- Dynamic Mimic dashboard with drill down for further levels of information
- Traffic light display provides early warning of imminent failure
- Trending and reporting of overall vibration amplitudes ensures class requirement are fulfilled
- Simple ship to shore data base transfer
- Simple and effective process data collector
- Optimisation and integration of maintenance activities