



# Energieffektiva lösningar och leverantörer

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# AVL EPOS™ Continuous ship engine monitoring

## 1. The background: your challenges

Competitive operations generate the following requirements for all companies:

- Maximum ship availability at minimum service costs
- Highest engine efficiency and maximum performance
- Emission compliance at minimum costs

In order to satisfy these objective, you need to **monitor engine performance and accurately predict future failures.** 

#### 3. Benefits for Key Stakeholders

- <u>Ship crew:</u> Guidance in the engine optimization for a fuel reduction up to 4% and early fault detection that allows planning of maintenance
- Fleet management: Key indicators allowing engine benchmarking between vessels and avoidance of critical engine failure or excessive wear leading to increased maintenance.
- <u>Environmental department:</u> Master upcoming IMO emission regulations without additional cost intensive emission measurement devices.

#### 2. Our solution: EPOS

AVL on-board monitoring of engine condition and efficiency based on engine cylinder sensors and expert algorithms for:

- Early fault detection and avoidance of severe engine failure with detailed root cause analysis
- Continuous high engine performance through clear guidance in engine optimization to the crew
- First model-based system for emission monitoring IMO compliant (NO<sub>x</sub>, SO<sub>x</sub> and CO<sub>2</sub>): no additional sensor required!

### 4. Why AVL?

- Unique combination of engine know-how and highest measurement accuracy
- 60 years of experience in engine development and monitoring
- More than 150 installations of the system in the world
- Steering influence in IMO emission discussion

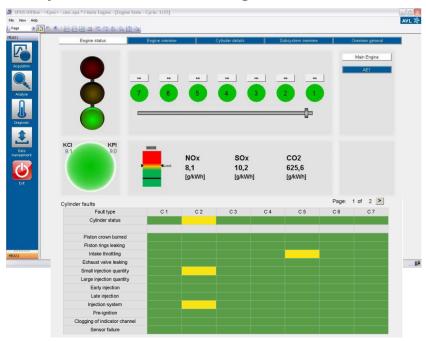




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## Continuous ship engine monitoring

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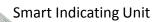


EPOS user interface – friendly traffic light system



The heart of EPOS: our robust and long trusted measurement devices









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