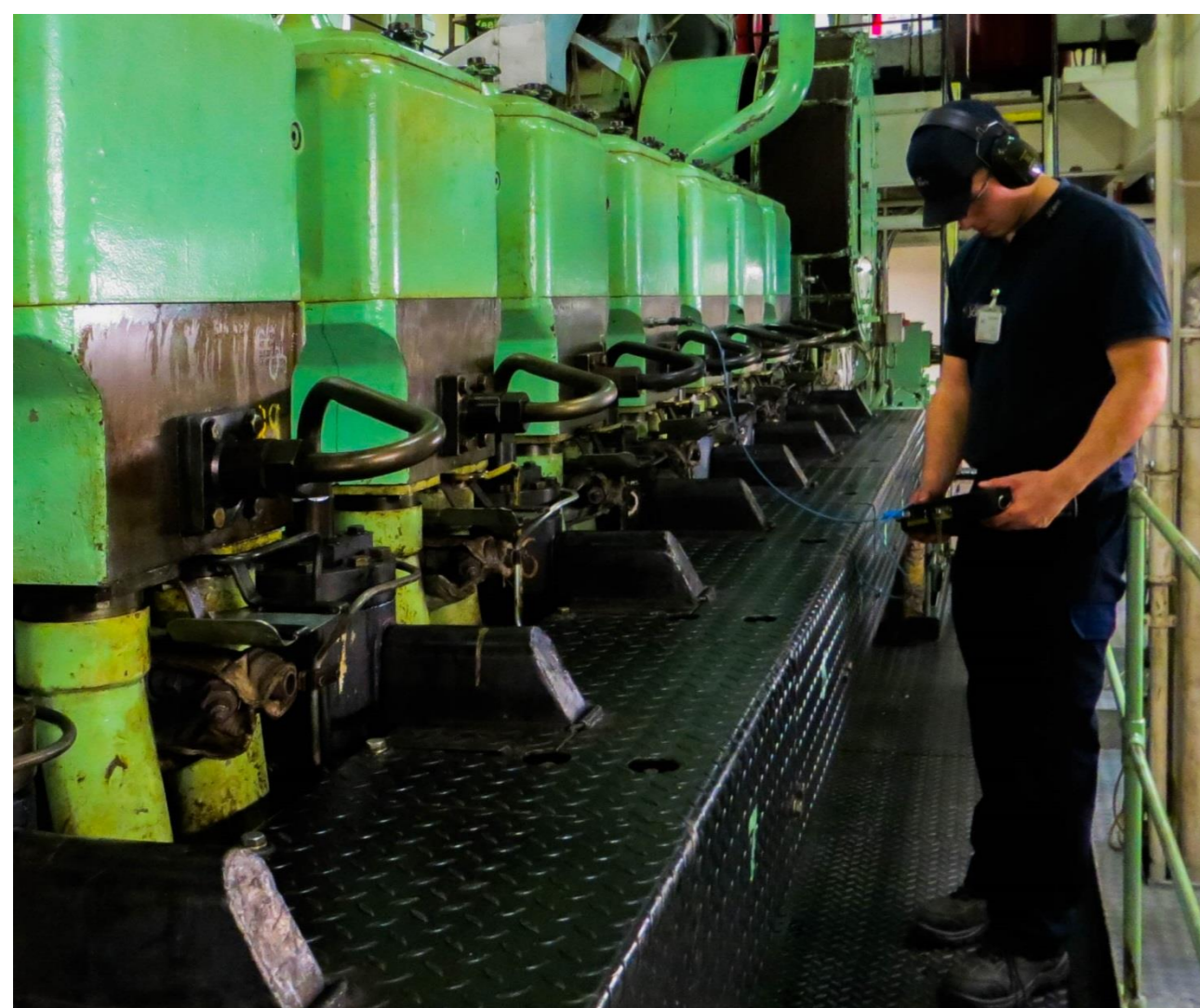


Development of predictive maintenance tools for reciprocating engines

Project description:

The purpose is to experiment a combination of different measurement technics to detect engine operating faults. Thanks to this knowledge, the performance of reciprocating engines as well as their health monitoring are assured. It allows to make an engine diagnostic and also to establish its complete health status.



Technics of measurement:

- vibration analysis,
- cylinder pressure analysis,
- oil analysis,
- exhaust gas analysis,
- ultrasounds analysis,
- infrared thermography.

The combination of these tools enables to identify defective components and mechanical condition.

Vibration monitoring of Marine Diesel Engine

This expertise can improve performance, reduce maintenance costs and avoid unexpected failures. It leads to reliable and efficient maintenance operations. It can also reduce fuel consumption and emission.

We are looking for partnerships to improve expertise in the described technics.

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Research areas

Mechanical & Thermal Engineering
Electronics & Electrical Engineering
Chemical & Biotechnological Engineering

Existing partnerships

I-care



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