

TURBOCHARGING

# Turbo MarineCare

## Predictability in a changing world



Turbo MarineCare is a comprehensive, data enabled service agreement tailored specifically for marine customers operating two stroke engine turbochargers. It provides financial predictability with fixed costs for the turbocharger maintenance at dry docks and peace of mind through continuous warranty extending from one dry dock to the next.

01 Predictable and transparent cost over the complete life-cycle

### Benefits



- **Financial predictability**
  - No cost overruns from unexpected parts replacement and overtime



- **Peace of Mind / Warranty**
  - Continuous warranty from dry dock to dry dock



- **Ease of doing business**
  - Simplification of turbocharger service management through a single integrated package



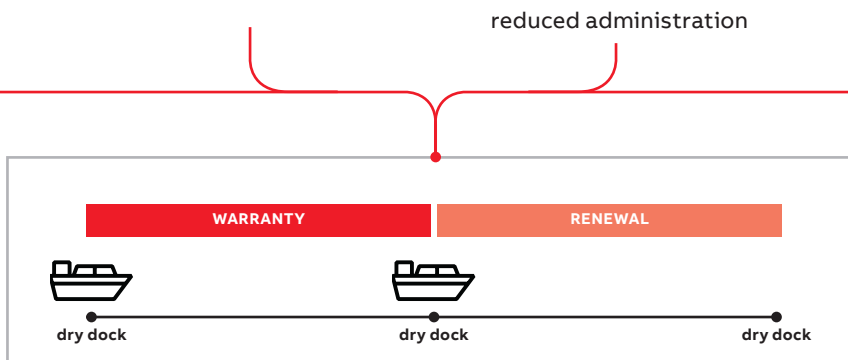
- **Clarity on equipment health**
  - Health assessment of turbocharger through analysis of operational data

- Fixed price for complete dry dock turbocharger overhaul. This includes:
  - Standard overhaul spares
  - Labor & travel
  - Wear & tear

- Covers events that may arise between dry docks
  - Covering all turbocharger parts as long as the reason is related to the turbocharger operation and not an external factor

- Complete scope of service (standard spares, wear & tear and labor) in a single purchase order
  - Including services in different dry dock countries
  - Efficient execution with reduced administration

- Enabled by continuous sharing of data
  - Allows for monitoring of turbocharger status
  - Early warning sent for any potential issues





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02 Existing and new build vessels can both benefit from the data driven features of Turbo MarineCare

**Powered by Data:**

A prerequisite for the warranty under Turbo MarineCare is the sharing of some of the vessels existing operational data, related to the turbocharger operation, with ABB at regular intervals. The data which is required is already being captured by the vessels' monitoring systems.

With this data, ABB will be able to analyze the general health of the turbocharger, which is the enabler for ABB to offer customers the following benefits under Turbo MarineCare:

- Continuous warranty
- Determining whether the intermediate inspection can be substituted with a data analysis
- Rotor health assessment
- Early warnings of the turbocharger condition

**Rotor health assessment**

Turbo MarineCare's rotor health assessment uses the shared operational data to provide a customized recommendation for rotor part usage, relative to material creep and fatigue. Complementary to the data assessment, a physical assessment is conducted in order to check for environmental influences on each turbocharger individually.

The results of both assessments are used to provide a warranty on material creep and fatigue.

**Application**



For ABB turbochargers type TPL-B, A100-L and A200-L



Applicable for existing ships already in operation



Applicable for new build



Fleet size. Any number with no minimum

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