ABB Ability™ Digital SIKO
for two-stroke turbocharging

The strategic shift to slow steaming to offset high fuel costs remains essential for merchant marine operators and vessel owners. To account for adjusted operations, ABB Turbocharging has evolved its Sicherheitskonzept (SIKO, or Safety Concept) to ABB Ability™ Digital SIKO. It offers flexible, exposure-based service recommendations that assure safety, reliability and optimized operational costs.

Why Digital SIKO?
ABB Ability™ Digital SIKO ensures the reliability and safety of ABB turbochargers, and is a further evolution of the well proven SIKO concept. This is backed by ABB’s reputation for quality in product and service excellence as an original equipment manufacturer with over 130 years of experience. ABB Turbocharging issues individualized recommendations for rotor part usage with a warranty, giving additional peace of mind from dry dock to dry dock.

Digital SIKO represents a shift towards exposure-based maintenance and data-driven solutions. By analyzing real operating conditions of the rotor, Digital SIKO offers operators and owners a unique level of reliability and lifecycle cost management. It goes beyond fixed exchange intervals to offer individualized recommendations to deliver potential cost savings for merchant marine customers.

Digital SIKO benefits

- **Safety**
  SIKO was developed to ensure the highest safety and reliability of ABB turbochargers. Digital SIKO has evolved from SIKO and provides the same high standard of safety and reliability.

- **Reliability**
  Digital SIKO offers owners and operators a unique level of reliability due to the data-driven assessment approach delivering turbocharger individual recommendations based on the actual operating conditions.

- **Secure operations**
  Individualized service recommendations are backed by ABB Turbocharging as the OEM, ensuring compliance with class societies and insurances during the warranty period.

- **Warranty**
  ABB Turbocharging issues a warranty for the rotor, providing peace of mind from dry dock to dry dock.

- **Data integrity**
  Turbocharger operational data is collected with an ABB monitoring system for highest data security.
How Digital SIKO works

02 Digital SIKO combines time-proven SIKO calculations with real operational data, helping sustain safe and reliable operations in the shipping industry.

Assessment overview
Digital SIKO’s Data Assessment is based on operational data to develop a customized recommendation for rotor part usage, relative to material creep and fatigue. It is backed up by a Physical Assessment that checks for wear and tear damage. The results of both assessments are used to create individualized exchange recommendations. The warranty is given if the individual Digital SIKO service recommendations are followed.

OEM advantage
Continuing a history of innovation spanning more than 130 years, ABB today is writing the future of industrial digitalization. ABB Turbocharging is supporting marine customers with digital solutions that simply enable more.

ABB Ability™
ABB Ability™ is the company’s unified and cross-industry offering, with devices, systems, solutions, services, and a platform that enable marine customers to know more and do more – both better and together.

Individualized service recommendations with Digital SIKO

03 Individualized service recommendations with Digital SIKO.

Warranty period
Operations under warranty

Warranty renewal
Operations under renewed warranty

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