



WÄRTSILÄ EXPERT INSIGHT – ENABLE PREDICTIVE MAINTENANCE

Assets are at the core of your business – and in an increasingly tough market, it's critical that they run as reliably and efficiently as possible. Wärtsilä Expert Insight is a holistic predictive maintenance service that proactively detects potential issues and provides actionable advice and insight to solve them. The result is increased safety, reliability and efficiency.

AI and rule-based diagnostics combined with expert analysis

The Wärtsilä Expert Insight service is delivered as part of a Wärtsilä Lifecycle Agreement. The solution uses artificial intelligence (AI) methods and rule-based advanced diagnostics to continuously monitor operating data for deviations and anomalous equipment behaviour.

A dedicated expert from a Wärtsilä Expertise Centre monitors for deviations on a daily basis, diagnoses problems and provides actionable

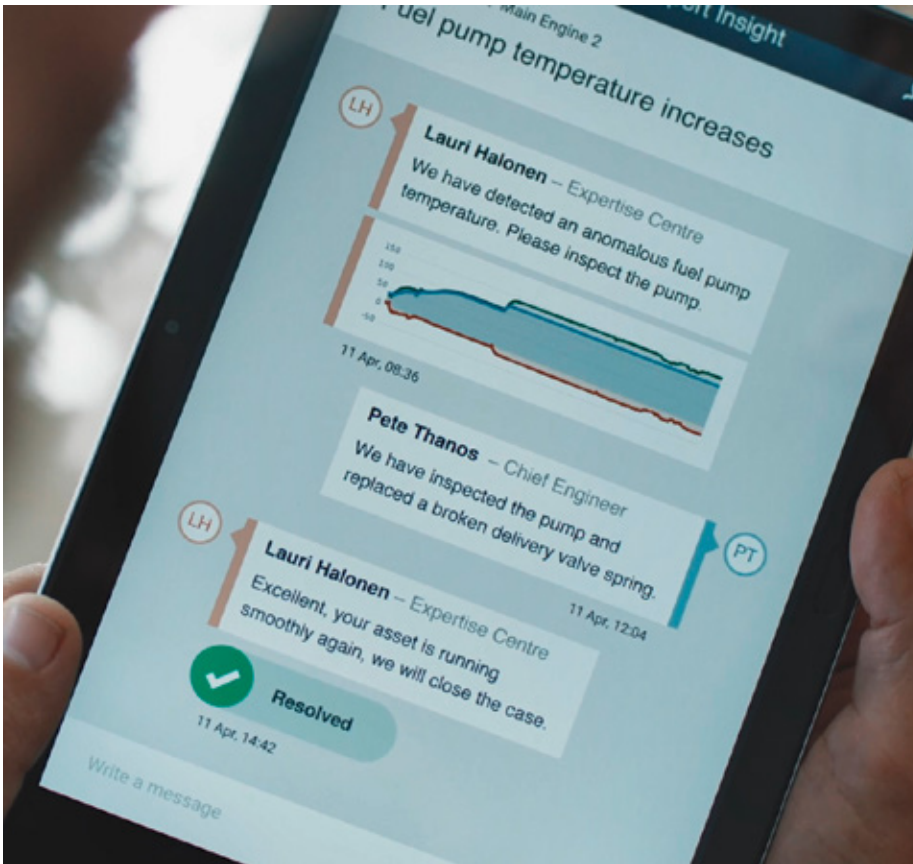
advice directly to your end user via an online application called the Collaboration app.

Early detection, actionable recommendations and timely resolution

The AI model in Expert Insight is trained to understand what your unique asset operating profile looks like. By comparing real-time data to this profile, the model can detect anomalies and highlight potential failures at an early stage.

KEY BENEFITS

- Be proactively notified of potential equipment failures and receive expert recommendations
- Increase reliability with less unplanned downtime
- Increase efficiency through optimal asset operation
- Enable better asset-management decisions through online collaboration between Wärtsilä and your on-site and office-based experts



Scope of supply

Expert Insight is suitable for various types of assets and is already available for 4-stroke and 2-stroke engines. For scrubbers, a preliminary service is in place. The service is delivered globally through Wärtsilä Expertise Centres, where our experts evaluate and investigate the issues highlighted by the Expert Insight system during office hours.

The recommendations are given primarily through the Collaboration app, which is accessible online through an internet-connected browser using the secure credentials provided. The service includes continuous follow-up of deviations in asset operating data, recommendations by a Wärtsilä expert, statistical reports and access to the Collaboration app.

The rule-based advanced diagnostics element has been under continuous development for over two decades. It defines the optimal operation window based on equipment configuration, design recommendations and internal experience with the equipment.

By combining AI and rule-based diagnostics, Wärtsilä experts can identify possible issues, then use their OEM expertise and experience to diagnose what's wrong, provide recommendations to your experts and support them in solving the issue.

Wärtsilä Expert Insight has a track record of success, from detecting seemingly minor deviations that indicate a bearing failure in the turbocharger to noticing alarming trends in the cooling water system – proactively solving the kinds of cases that can potentially result in significant financial losses and engine downtime if they are not detected in time.

It is recommended that Expert Insight is implemented together with Wärtsilä Operational Support. Operational Support enables direct contact with a Wärtsilä expert to discuss acute operational issues around the clock.

Why choose Wärtsilä?

Wärtsilä is an experienced lifecycle solution provider with nearly 30 years of experience delivering operation and maintenance services. Our Expertise Centres around the world support our Lifecycle Agreement customers with advice, recommendations and remote tuning based on monitoring and analysis during day-to-day operation and in unforeseen situations.

© 2021 Wärtsilä Corporation – All rights reserved.

No part of this publication may be reproduced or copied in any form or by any means (electronic, mechanical, graphic, photocopying, recording, taping or other information retrieval systems) without the prior written permission of the copyright holder. Neither Wärtsilä Finland Oy, nor any other Wärtsilä Group Company, makes any representation or warranty (express or implied) in this publication and neither Wärtsilä Finland Oy, nor any other Wärtsilä Group Company, assumes any responsibility for the correctness, errors or omissions of information contained herein. Information in this publication is subject to change without notice. No liability, whether direct, indirect, special, incidental or consequential, is assumed with respect to the information contained herein. This publication is intended for information purposes only.