



WÄRTSILÄ DATA-DRIVEN DYNAMIC MAINTENANCE PLANNING – SAFELY PROLONG ENGINE MAINTENANCE INTERVALS

Improving engine availability and reducing costs are critical for ensuring competitiveness. Wärtsilä Data-Driven Dynamic Maintenance Planning (Data-Driven DMP) uses engine data analysis and inspections to safely prolong maintenance intervals – optimising the time between overhauls and enabling you to perform maintenance only when needed. The result is less maintenance and lower lifecycle costs.

From fixed intervals to maintenance when needed

Wärtsilä Data-Driven Dynamic Maintenance Planning is based on a combination of Wärtsilä Expert Insight, Wärtsilä Fluid Management, maintenance history and inspections.

There are two types of inspections: intermediate inspections, also known as borescope inspections, and opening

inspections. An assigned expert from a Wärtsilä Expertise Centre evaluates the need for an inspection on a case-by-case basis and provides a statement indicating whether an intermediate or opening inspection is required. Inspections between overhauls are needed to verify the condition of some components which might not be visible from the data collected by Expert Insight and Fluid Management.

KEY BENEFITS

- The potential to extend engine maintenance intervals
- Increase availability by minimising planned downtime
- Reduce service and travel costs
- Receive an OEM statement for classification societies including a recommendation for optimised maintenance intervals
- Train crew to perform intermediate (borescope) inspections with remote support from a Wärtsilä Expertise Centre



The goal of the Data-Driven DMP solution is to reduce the number of inspections between overhauls by excluding intermediate inspections and replacing the opening inspection with an intermediate inspection when possible. Intermediate inspections can be performed by trained customer personnel, while opening inspections, if needed, are performed by Wärtsilä experts.

After data analysis and inspections, Wärtsilä will provide an OEM statement for classification societies including a recommendation for extending maintenance intervals. While the length of the maintenance interval extension depends on the engine type, load, fuel, operation and the condition of the fluids, in most cases it's possible to extend the interval by at least 6,000 hours.

Scope of supply

- Support from a dedicated expert from a Wärtsilä Expertise Centre
- A customised maintenance plan including intermediate and opening inspections if necessary
- An OEM statement for classification societies
- Training on intermediate inspections from the Wärtsilä Land and Sea Academy
- Remote support from a Wärtsilä Expertise Centre during intermediate inspections

Wärtsilä Data-Driven DMP is always delivered as part of a Wärtsilä Lifecycle Agreement. The solution is applicable for Wärtsilä 20, 20DF, 26, 32, 34DF, 34SG, 38, 38A, 38B, 46, 46F, 50DF, 50SG and Vasa 32 engines. Wärtsilä Expert Insight, Wärtsilä Maintenance Planning and Wärtsilä Fluid Management are needed to implement this solution.

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.