PMI VIT

Based on PMI sensors on each cylinder. Performance Measurement Indicator Variable Injection Timing (PMI VIT) automates the operation of the VIT system to facilitate reduction of fuel consumption.

New technology that has emerged in the last couple of decades has played a considerable role in the development of Everllence PrimeServ retrofit and upgrade products for MC engines. For instance the PMI VIT system, which uses PMI sensors and data about the actual cylinder pressure. PMI VIT automates the original mechanical or electronic VIT in the engine.

Better engine performance leads to reduction of SFOC and CO_2

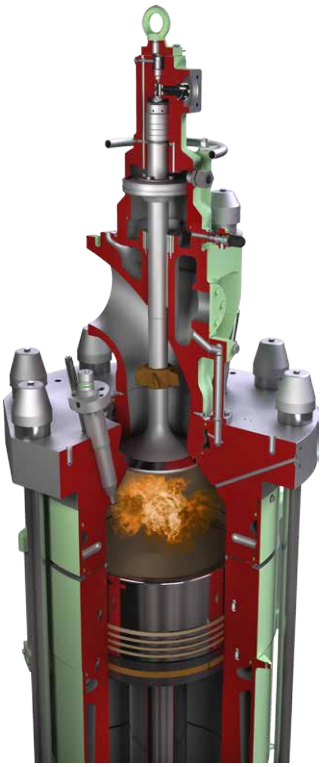
PMI VIT optimizes the fuel injection timing via the electronic actuator on the VIT rack, based on pressure data from the PMI sensors. This increases the maximum cylinder pressure (Pmax) to improve the combustion, which can reduce the fuel consumption and, consequently, CO_2 emissions. The system displays various performance data on a screen, informing the crew of opportunities for additional engine tuning.

The engine tuning can lead to substantial fuel savings with service experience showing that you can typically reduce the specific fuel oil consumption (SFOC) by around 1–3 g/kWh compared with the mechanical VIT system. This is especially due to the added opportunities to optimize the engine performance. The actual obtainable fuel savings will depend on the condition of the engine.

The CO_2 reduction will help improve your Carbon Intensity Indicator (CII) rating, and it will help cut your carbon costs within the EU Emissions Trading System (ETS).

In addition, the tuning will minimize unnecessary wear on engine components, which will lower the maintenance costs.

Please contact your Everllence PrimeServ office for more details.



Everllence PrimeServ

PMI VIT

Optimize engine performance while saving fuel

Key benefits

- Saves a substantial amount of fuel
- Improves performance and engine efficiency
- Lowers engine maintenance costs and increases reliability
- Adjusts the engine automatically in response to ambient conditions and fuel properties
- Simplifies operability to ease the workload and eliminate time-consuming manual adjustment
- Diminishes the risk of human errors thanks to automatic parameter adjustment
- Reduces SFOC leading to CO_2 reduction, which helps to improve the CII rating and bring down EU ETS carbon costs
- Reduces carbon particle emission

Scope of supply

- PMI sensors
- PMI VIT offline kit – depending on bore size
- VIT system package – electronic or mechanical
- Angle encoder – single or double

Applicable to

All Everllence B&W 50-98 MC/ MC-C engines with a VIT rack installed

More information

Contact your local Everllence PrimeServ office for more information about the product and how the upgrade can improve your specific engine.

Everllence PrimeServ

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