Load **optimizer**

Load Optimizer is an engine control system (ECS) update that reduces the effects on cylinder liners and piston rings caused by engine load variations.

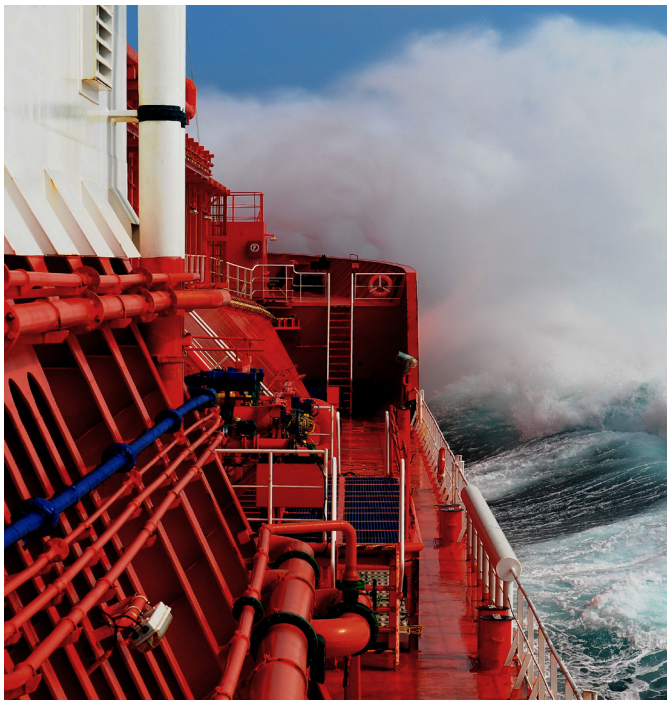
A rapid load increase on the engine can cause a sudden heat increase in the cylinders, leading to excessive wear of cylinder liners and piston rings. Moreover, the liners and the piston rings may be worn and need replacement sooner if load variations occur due to external conditions such as rudder movements, under-keel clearance variations, and adverse weather conditions.

Another reason for increased wear on liners and piston rings is a heavy running engine, for instance due to insufficient light running margin, marine growth on hull and propellers, or adverse weather conditions. This causes an increase in the difference between the combustion pressure and the maximum combustion pressure (Prise), leading to more contact pressure between piston rings and liner.

Reduces unplanned maintenance and replacement of parts

Load Optimizer will extend the duration of an increase from 80% load to 100% load by limiting the fuel index to diminish the heat load and protect cylinder liners and piston rings. Load Optimizer will also control the fluctuation of the fuel index when the engine runs above the maneuvering area, which will protect it against rapid load increases. In case of heavy running propellers, Load Optimizer will protect the engine by limiting the permissible prise.
To benefit fully from Load Optimizer and reduce the fuel consumption, Load Optimizer can be combined with EcoTorque.

Please contact your Everllence PrimeServ office for more details.



Everllence PrimeServ

Load optimizer

Fully automatic system improving cylinder liner condition

Key benefits

- Improved cylinder liner condition and protection of piston rings
- Safe engine load-up
- Reduced risk of unplanned cylinder liner and piston ring replacement
- Fully automatic system
- Easy installation – no attendance required by Everllence PrimeServ (installation with the parameter update tool – PUT)

Scope of supply

Load optimizer software, including PUT.

Applicable to

All Everllence B&W ME-C engines 80 bore and larger – mark 9 and newer.

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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