

Mk. 2 upgrade for L16/24 Tier I Mk. 1

In 2008, Everllence PrimeServ developed an operational improvement package, Mk. 2 Upgrade for L16/24 Tier I Mk. 1, to eliminate major damage caused by collision between valves and piston crown, and to increase the operational stability of the engine.

Some operators have previously experienced issues with sticking valves as a result of low-load operation or inadequate treatment/quality of heavy fuel oil. Sticking valves can result in damage to valve spindles, piston crowns, rocker arms, and the turbocharger.

Everllence PrimeServ strongly recommends complying with the below service letters, as well as staying up-to-date with past and future service letters about L16/24. Moreover, Everllence PrimeServ strongly recommends installing the necessary retrofit products and adhering to the current operation procedures and maintenance routines in accordance with the following service letters:

- SL2016-615/JFH Automatic backflush filter 10/6 μm
- SL2013-577/KEL Fuel oil safety filter duplex 25/10 μm
- SL2015-597/HCL Water washing/dry cleaning devices for TC

To save costs, we recommend upgrading the L16/24 Tier I Mk. 1 during a major overhaul. The upgrade includes new complete cylinder units, as described in the to-whom-it-may-concern letter – Mk. 2 Update, dated 28 April 2023.

With the upgrade kit, Everllence PrimeServ will supply the necessary amendment to the engine Technical File stating compliance with the new IMO-marked components.

The Mk. 2 upgrade improves the combustion and valve motion, extends the service life of essential components and, thereby, increases the time between overhauls (TBO) from 12,000 hours to 16,000 hours.

The Mk. 2 upgrade can include inspection of and, if needed, overhaul of the fuel system, turbocharger, charge air cooler, thermostatic valves (water), engine room ventilation and pressure, and conical elements.

Please contact your Everllence PrimeServ office for more details.



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Improve TBOs with the Mk. 2 upgrade

Key benefits

- Improved fuel savings
- Extends the TBO from 12,000 to 16,000 hours
- Increased engine operation stability
- Low-profile camshaft sections with lower lift
- Machined piston crowns eliminating piston-to-valve contact
- New stronger valve springs
- New type of valve guide
- Improved valve rotors
- Anti-turning device for valve bridge

Scope of supply

- New complete cylinder unit with valves, valve guides, rotocaps, spring housings, and connecting rod bearings
- Low-lift camshaft sections (valves)
- Gasket set for complete cylinder unit exchange
- Fuel nozzles (Woodward or L'Orange)
- Tool for adjustment of roller guide bracket
- Tool for easy/safe adjustment of valve clearance
- New pages for the instruction manual
- All NOx Technical File amendments

Applicable to

Available for the engine type L16/24 Tier I Mk. 1

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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