



8 February 2021

Upgraded G45ME-C9.7 engine with improved fuel efficiency

The new engine type will be available in a fuel oil burning version

We have decided to introduce the upgraded G45ME-C9.7 engine design with a better fuel efficiency throughout the load range.

The new engine design features changes to engine structure components, moving parts, combustion chamber, fuel equipment, and various piping systems with the aim of enhancing the overall performance and to lower the specific fuel oil consumption.

The following features are part of the updated engine design:

- New combustion chamber and exhaust valve design
- New FlexRod connecting rod design
- Updated fuel valve design

The layout area of the G45ME-C9.7 has not been changed compared to the G45ME-C9.5 engine.

Figs. 1 to 3 show the improved performance values, which are a result of the design changes.

Tier II engines

Fig. 1 shows the SFOC reductions obtained in the entire load range for a G45ME-C9.7 engine with high-load optimisation compared to a G45ME-C9.5 engine.

The exhaust gas bypass (EGB) tuning method is available for the Tier II version of the engine.

Fig. 2 also shows SFOC reductions in the entire load range for a low-load optimised G45ME-C9.7 engine compared to a G45ME-C9.5 engine.

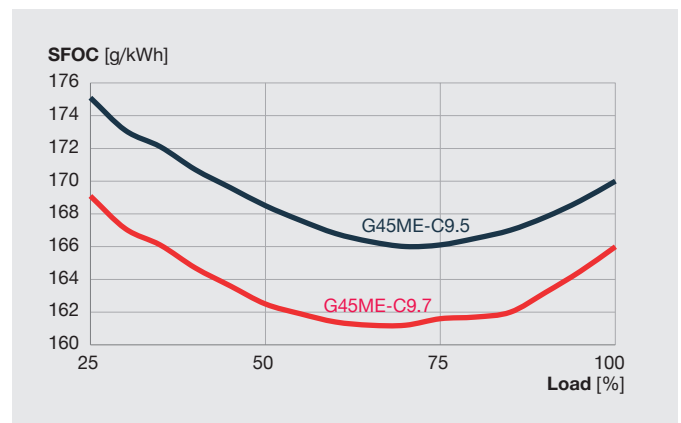


Fig. 1: SFOC reduction high-load optimised Tier II engine at L1 rating

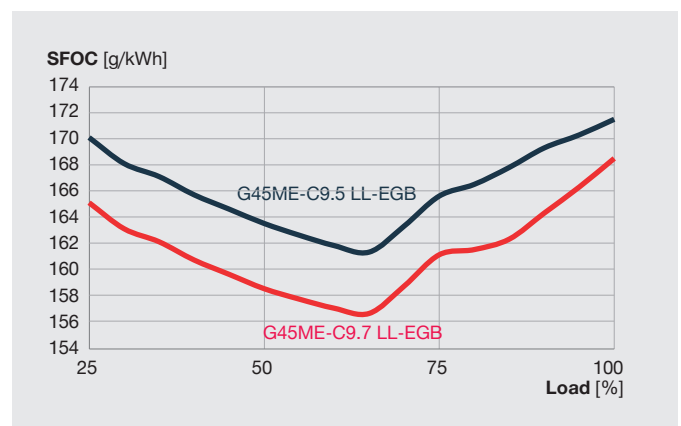


Fig. 2: SFOC reduction low-load optimised Tier II engine at L1 rating

Market Update Note



Tier III engines

Engine tunings EGRBP, EcoEGR, HPSCR, and LPSCR are applicable for the Tier III engine.

Fig. 3 shows the SFOC reductions in Tier II mode for the G45ME-C9.7 engine compared to a G45ME-C9.5 engine. Both engines are equipped with SFOC optimised EcoEGR Tier III technology.

The G45ME-C 9.7 engine is available in CEAS and it will be available in the engine programme released soon. The G45ME-C9.5-GI engine will still be available for ordering, you can find it in the engine programme and in CEAS.

Please direct questions regarding this Market Update Note to our Two-Stroke Promotion & Customer Support, at kjeld.aabo@man-es.com.

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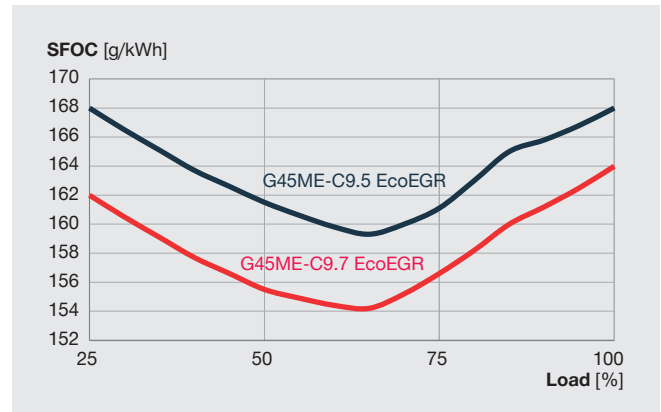


Fig. 3: SFOC Tier III engine in Tier II mode at L1 rating