

Press release

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Everllence Confirms Successful Running of Ethanol-Fuelled Four-Stroke Engine

Testing confirms Everllence 21/31 as fuel-flexible platform

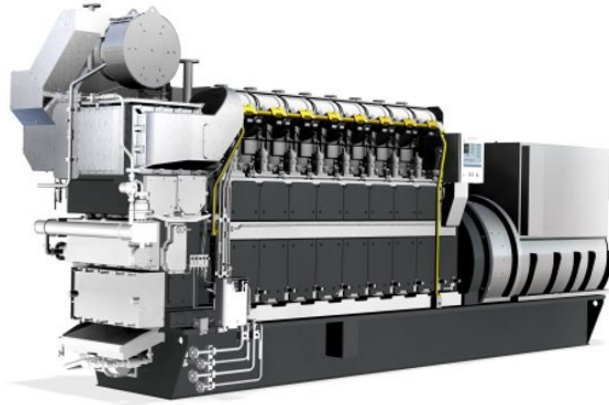
Everllence has confirmed the successful running on ethanol – at all load points – of its 21/31 dual-fuel engine at test facilities in Frederikshavn, Denmark.

Everllence pioneered the platform of two-stroke methanol-burning engines over a decade ago with the first commercial engine entering service in 2016. Building on this experience, Everllence became the first company to launch a small-bore, four-stroke, methanol-burning GenSet in 2024 – the 21/31DF-M (Dual-Fuel Methanol) unit – with several already in commercial operation.

Building further on the 21/31 platform, the successful operation on ethanol provides Everllence with a fully operational engine with which to document ethanol's capabilities as fuel.

Rasmus Frimann Nielsen – Senior Manager, Head of Four-Stroke Small-Bore Engineering, Everllence – said: "This engine platform has shown great promise when burning alternative fuels and, during testing, we even managed to expand the ethanol fuel-share compared with methanol. In general, the past few years have seen steadily growing interest in ethanol from the market. We always do our utmost to listen to these signals and had accordingly been carrying out the necessary design considerations, which has provided us with a solid technical foundation. Tests in Frederikshavn have now provided us with the technical know-how to take us to the next level. We are still evaluating the data, however it confirms our earlier assumption that we could run the 21/31 engine on ethanol without issues."

Lars Zimmermann – Director, Sales & Promotion, Marine GenSets, Everllence – said: "We keep a close eye on the market and see some uncertainty among our customers regarding which fuel strategy they should pursue. In response, Everllence has pioneered many fuel-flexible solutions with ethanol on the 21/31 platform just the latest. Our position as the world's leading engine designer means that we have a special, on-going obligation to develop new technologies to decarbonise the global maritime industry. Now we need legislation in place that considers the case of ethanol as a viable fuel source, as well as developing a requisite market demand."



The Everllence 21/31DF-M engine

Everllence (formerly MAN Energy Solutions) is a leading provider of propulsion, decarbonization and efficiency solutions for shipping, the energy economy and industry. True to our motto – 'Moving big things to zero' – we help key industries in the global economy to reduce hard-to-abate emissions. Our technologies have a measurable impact on the success of the global energy transition. Headquartered in Germany, Everllence employs some 15,000 people at over 140 sites globally. Our after-sales brand, Everllence PrimeServ, also supports our customers through its worldwide service-center network.