
Press release

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First Conversion of RoPax Ferries to LNG Operation Announced

PrimeServ to retrofit two Baleària ferries to dual-fuel running

MAN PrimeServ, the after-sales division of MAN Energy Solutions, has won the contract to convert two RoPax ferries from Spanish operator, Baleària Eurolineas Maritimas, S.A., to dual-fuel operation.

Sister ships, the 'Nápoles' and 'Sicilia', are currently each powered by 2 x MAN 9L48/60A main engines, which will all be converted to 9L51/60DF units that will enable running on LNG.

Dr Thomas Spindler, Head of Upgrades & Retrofits, PrimeServ Four-Stroke, MAN Energy Solutions, said: "We showed – with the conversion of Wessels Reederei's 'Wes Amelie' containership – that operational MAN engines can successfully be converted to LNG operation with a tremendous effect on exhaust emissions and the environment. We are very happy that Baleària has seen fit to bring these benefits to a new segment and application and look forward to the conversion procedure."

Director General of Operations at Baleària, Ettore Morace, stated that the company's commitment to the environment: "is a strategic line for the company based on the use of liquefied natural gas and other clean energies as well as fleet eco-efficiency". He also specified that LNG helps reduce carbon dioxide emissions (CO₂) by 30% and nitrogen oxide (NO_x) by 85% in addition to eliminating sulphur and particle emissions.

The conversion of the Nápoles is due to take place in Spain between November 2018 and January 2019, with the conversion of Sicilia to take place from October to December 2019. The Sicilia operates on the Barcelona – Ibiza route, while the Nápoles serves currently the Algeciras – Tanger Med route.

The Maritime Energy Transition

The conversion to LNG operation is part of MAN's wide-ranging engagement for the establishment of LNG as a shipping fuel. Calling for a 'Maritime Energy Transition' the company considers the use of natural gases as the fuels of choice in global shipping as the most promising way to supporting the goal of a climate-neutral shipping industry. Launched in 2016 after COP 21, MAN's initiative has since found broad support within the shipping industry and politics.

The Wes Amelie conversion

This noteworthy project involved the retrofitting of the 1,036-teu feeder container ship's MAN 8L48/60B main engine to a multi-fuel, four-stroke MAN 51/60DF unit that enables dual-fuel operation – the first such conversion of its type the world had ever seen.

Wessel's Reederei's Wes Amelie operates in the highly regulated Nordic and Baltic Seas. Since both bodies of water lie within Emission Control Areas, the vessel needed to meet the highest environmental standards and strictest limits for emissions.

The dual-fuel conversion has enabled the 'Wes Amelie' to significantly reduce its SO_x emissions by >99%, NO_x by approximately 90%, and CO₂ by up to 20%. The vessel now meets both the Tier II and Tier III emission requirements set by the International Maritime Organisation (IMO).

About Baleària

Baleària is the leading passenger and cargo shipping company for connections with the Balearic Islands, joins Ceuta and Melilla with the Peninsula and has a presence in northern Africa (Morocco and Algeria) as well as in the Caribbean (United States and the Bahamas), areas where it is implementing an ambitious expansion plan.

The company is a reference as concerns service, innovation and social responsibility in the Spanish maritime transport sector. Baleària is a world pioneer among shipping companies in the use of liquefied natural gas as it has commissioned the construction of two LNG-propelled smartships, which will use smart technologies to obtain eco-efficiency and include services typical of a cruise line to enhance its passenger travel experience.



Pictured at the signing of the contract for the retrofits at Baleària Head Office in Denia, Spain (front, from left): Dr Thomas Spindler, MAN Energy Solutions – Head of Upgrades & Retrofits, PrimeServ Augsburg; and Ettore Morace, Baleària Director General of Operations; (rear, from left) Carlos Madonar, MAN Energy Solutions, Spain; José Poblet, CoteNaval Director General; Pablo Montes, MAN Energy Solutions, Spain; and Marcel Lodder, MAN Energy Solutions – Marine Upgrades & Retrofits Sales, PrimeServ Augsburg



Baleària's 'Napoles' (top) and 'Sicilia' RoRo ferries whose MAN 9L48/60A main engines will be converted to LNG-capable MAN 9L51/60DF units under the terms of the new contract (pictures courtesy Baleària)

MAN Energy Solutions enables its customers to achieve sustainable value creation in the transition towards a carbon neutral future. Addressing tomorrow's challenges within the marine, energy and industrial sectors, we improve efficiency and performance at a systemic level. Leading the way in advanced engineering for more than 250 years, we provide a unique portfolio of technologies. Headquartered in Germany, MAN Energy Solutions employs some 14,000 people at over 120 sites globally. Our after-sales brand, MAN PrimeServ, offers a vast network of service centres to our customers all over the world.