

GTT receives three Approvals in Principle from DNV on its latest development projects in alternative fuels

Paris, Oslo – June 8th, 2023. GTT has been granted three Approvals in Principle (AiP¹) from DNV, a world's leading classification society, on its latest development projects in alternative fuels. Two of these three concepts were developed with the support of the Finnish ship designer Deltamarin.

These AiPs were presented to Philippe Berterottière, Chairman and CEO of GTT and Kristian Knaapi, Sales Manager at Deltamarin, by Remi Eriksen, DNV Group President and CEO, at DNV's headquarters during the Nor-Shipping exhibition.

These AiPs cover the following projects:

- A concept for an LNG dual-fuel Suezmax tanker developed in collaboration with Deltamarin, fitted with a LNG fuel tank of 5,500 m³ equipped with GTT's [Mark III system](#);
- A concept for an LNG dual-fuel Very Large Crude Carrier (VLCC) also developed with the support of Deltamarin, fitted with a LNG fuel tank of 12,500 m³ equipped with GTT's [Mark III system](#);
- A concept for a [Mark III](#) LNG fuel tank with NH₃ Ready notation that includes material compatibility with NH₃, risk assessment and boil-off gas management.

For tankers, the concepts developed by GTT aim at maximising vessel autonomy thanks to large-capacity tank, giving ship-owners and charterers the benefit of longer trade navigation with only one refuelling operation, with no impact on cargo capacity. Regarding ammonia, based on an extensive compatibility tests campaign carried out by GTT, the NH₃ Ready concept paves the way for potential conversion of the fuel tank to ammonia in the future, offering additional flexibility to comply with the environmental regulations.

Philippe Berterottière, Chairman and CEO of GTT, said: *“We are very pleased to have received these Approvals in Principle from DNV, with whom we have a long-term and trustful relationship. These certifications confirm the relevance of the R&D and innovation efforts carried out by GTT engineers and technicians. Besides, the work done on ammonia is an important milestone for GTT and the future of our technologies. We thank DNV for their trust in our solutions for alternative fuels and Deltamarin for their strong cooperation.”*

¹ An Approval in Principle (AiP) is an independent assessment of a concept within an agreed framework, confirming that the design is feasible, and no significant obstacles exist to prevent the concept from being realised.

Remi Eriksen, Group President and CEO of DNV said: *“We are very pleased to grant Approvals in Principle to GTT and Deltamarin for these innovative new concepts. Continuing to break new ground with regards to technology, is essential if shipping is to meet its ambitious decarbonization goals. These concepts build on LNG, which is already playing a key role in reducing shipping’s carbon emissions, while offering a path towards future fuels.”*

Kristian Knaapi, Sales Manager of Deltamarin said: *“Deltamarin is proud to have achieved these Approvals in Principle alongside GTT, signifying the dedication of our work. The advances in ammonia and LNG are important milestones and signify the progress towards our decarbonization goals. We are pleased by the great collaboration we have had with both DNV and GTT, as we collectively pave the way towards zero-emission operation.”*

About GTT

GTT is a technological expert in containment systems with cryogenic membranes used to transport and store liquefied gases. For over 50 years, GTT has been designing and providing cutting-edge technologies for a better energy performance, which combine operational efficiency and safety, to equip LNG carriers, floating terminals, land storage, and multi-gas carriers. GTT also develops systems dedicated to the use of LNG as fuel, as well as a full range of services, including digital services in the field of Smart Shipping. The Group is also active in hydrogen through its subsidiary Elogen, which designs and assembles electrolyzers notably for the production of green hydrogen.

GTT is listed on Euronext Paris, Compartment A (ISIN FR0011726835 Euronext Paris: GTT) and is notably included in SBF 120, Stoxx Europe 600 and MSCI Small Cap indices.

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