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WinGD completes type approval testing for new short-stroke engine size

Swiss marine power company WinGD has successfully completed type approval and factory acceptance testing for its X52-S2.0 engine, bringing a new option to shipowners in need of compact, medium-bore two-stroke engines. The tests at Yuchai Marine Power Co (YCMP) confirmed the engine's performance and compliance, while the prototype project validated its ease of assembly and maintenance.

The X-S series succeeds the well-established RT-flex50 and RT-flex58 engines and is available in 52cm and 62cm bore sizes, with confirmed orders already for diesel, LNG and methanol configurations and an ammonia fuel option under development. The combination of small footprint and best-in-class fuel efficiency – around 10g/kWh lower than equivalent RT-flex engines, a saving of around 4% depending on operating profile – make the new platform ideal for vessels requiring a compact, medium-bore solution.

WinGD Head of Global Testing & Validation, Sotiris Topaloglou said: “The recent test campaign of this newest X-S engine has confirmed that this series delivers exceptional fuel efficiency and emissions performance. We're proud of the innovations that have enabled this performance. The footprint reduction will drive cost efficiencies while the new concept dramatically simplifies engine construction, installation, maintenance and service. Completing this prototyping and testing phase so efficiently was only possible thanks to our strong partnership with YCMP.”

The X-S series highlights WinGD's unique approach to engine development, focused on close collaboration with engine builders like YCMP and with innovation rooted in proven technologies. The X-S, for example, uses key components with robust supply chains already well-established across WinGD's engine portfolio, while drawing on modern engineering and design innovations to reduce the size and footprint while simplifying the maintenance of those components and the overall engine.

The type approval tests followed similar successful tests for the larger X62-S2.0 engine at Dalian Marine Diesel in April. The first order for the X52-S2.0 was received in February 2023 followed by a second order with iSCR, WinGD's on-engine NOx abatement solution, in July that year.

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WinGD in brief

WinGD advances the decarbonisation of marine transportation through sustainable energy systems using the most advanced technologies in emissions reduction, fuel efficiency, hybridisation and digital

optimisation. With their two-stroke low-speed engines at the heart of the power equation, WinGD sets the industry standard for reliability, safety, efficiency and environmental design, backed by a global network of service and support. Headquartered in Winterthur, Switzerland since its origin as the Sulzer Diesel Engine business in 1893, today it is powering the transformation to a sustainable future.

WinGD is a CSSC Group company.

For more information visit: www.wingd.com

