



## **MAN 28/33D STC Engine Successfully Passes TAT**

Copenhagen,  
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MAN Diesel & Turbo's MAN 28/33D STC engine passed its Type Approval Test (TAT) at the end of April 2018 at the company's works in Augsburg, Germany. The TAT was supervised by classification-society representatives from the China Classification Society, Class NK, Registro Italiano Navale, the Russian Maritime Register of Shipping and the Indian Register of Shipping.

Daniel Degen, Head of Diesel Engine Testing at MAN Diesel & Turbo said: "Testing followed the time schedule precisely and the engine performed perfectly on the testbed. The TAT is important as it showcases the 28/33D STC's continued relevance both to the market and our licensees, and we are very happy with the result."

The MAN 28/33 engine was originally certified in 2002 and has since been continuously developed in terms of product improvement and customer benefit on the one hand, and to meet new legislation on the other.

The last, significant developmental step in the engine's lifetime was the introduction of sequential turbocharging (STC) in 2012, which markedly improved its dynamic behaviour and enlarged the operation range of the engine for high torque operation on the double propeller curve.

Previously, the engine had already been accepted by seven classification societies (ABS, BV, DNV GL, LR, TL, CR). With this extension of the approval, the V28/33D STC is now certified by a total of twelve classification societies.

Certification facilitates the use of the engine in mechanical applications up to 500 kW/cyl (ICFN) or 455 kW/cyl (MCR) in ships worldwide. Using primary measures, the engine complies with IMO Tier II emission limits, while – in combination with MAN Diesel & Turbo's customised SCR (Selective Catalytic Reduction) system – it can also meet IMO Tier III legislation.

The TAT in Augsburg took place over three days and covered the integration test of the engine safety and control system (SaCoS), the performance run and a final component inspection.

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*Pictured at the MAN 28/33D STC TAT (from left to right, MAN Diesel & Turbo unless stated): Markus Herrmann – Head of Engine Quality Site Inspection, Lian CAO (CCS – Senior Surveyor), Alexander Kadyshch (Class RS – Senior Surveyor), Robert Anton Pintar – Responsible Test Engineer 28/33D STC, Dr. Armin Müller – Classification Engineer, Paul Donnelly (IR CLAAS – Surveyor), R. Joehnk (Class NK – Senior Surveyor), Franz Bisch – Classification Engineer, Stanislav Artemyev (RINA – Marine Surveyor), Thomas Kremser – Head of Engine Test, Daniel Degen – Head of Diesel Engine Test*

**About MAN Diesel & Turbo**

MAN Diesel & Turbo SE, based in Augsburg, Germany, is the world's leading provider of large-bore diesel and gas engines and turbomachinery. The company employs around 15,000 staff at more than 100 international sites, primarily in Germany, Denmark, France, Switzerland, the Czech Republic, India and China. The company's product portfolio includes two-stroke and four-stroke engines for marine and stationary applications, turbochargers and propellers as well as gas and steam turbines, compressors and chemical reactors. The range of services and supplies is rounded off by complete solutions like ship propulsion systems, engine-based power plants and turbomachinery trains for the oil & gas as well as the process industries. Customers receive worldwide after-sales services marketed under the MAN PrimeServ brand.