



## TASMANIAN ACHIEVER II: Ro-ro

Shipbuilder: ..... **NanJing JinLing Shipyard Co., Ltd.**  
 Vessel's name: ..... **Tasmanian Achiever II**  
 Owner/Operator: ..... **Toll Transport Pty Ltd**  
 Country: ..... **Australia**  
 Designer: ..... **Sea Highways & NAOS**  
 Country: ..... **UK & Italy**  
 Model test establishment used: ..... **HSVA**  
 Flag: ..... **Australia**  
 IMO number: ..... **9812468**  
 Total number of sister ships already completed (excluding ship presented): ..... **1**  
 Total number of sister ships still on order: ..... **Nil**

One of a pair of 15,631dwt freight ro-ros, *Tasmanian Achiever II* was completed by the builder Jinling Shipyard at the end of 2018 but entered into service with its owner Toll Transport in early March 2019 when infrastructure upgrades were completed in their ports. The sister, *Victorian Reliance II*, followed soon after. The vessels were designed by Sea Highways Ltd and NAOS Design of Trieste and their construction gave Jinling a re-entry to a familiar market sector which they now lead.

On its delivery, *Tasmanian Achiever II* became the largest commercial vessel under the Australian flag and is also the largest short-sea ro-ro ship in operation in the southern hemisphere. The two ships operate a daily overnight service across the Bass Strait between Melbourne on the Australian mainland and Burnie in Tasmania. Their introduction has increased capacity on the route by 40%.

The ship is tailor made for the trade which requires a high percentage of reefer units. 360 plugs are provided, the largest on any shortsea ro-ro ship. 100t capacity rolltrailers with 4TEU are block stowed in the 7.5m high maindeck, loaded via the 24m wide stern door/ramp. An advanced firefighting system has been specified based on Survitec's X-flow medium pressure water mist system covering the engine rooms, cargo decks and accommodation fully complying with IMO MSC 1/Circ 1430.

The vessels have been designed for future fuel flexibility with a Gas Ready (GR-A) notation. The two main engines are MAN B&W 9S40ME-B9.5 units each with an output of 10,215kW and each driving a 5m diameter controllable pitch propeller at 146rpm. Each shaftline is fitted with a 1,700kW We-Tech permanent magnet shaft generator. A pair of Yara in-line hybrid scrubbers takes care of SOx emissions using MgO rather than NaOH. *Tasmanian Achiever II* is fully EEDI compliant at its 20.5knot service speed (at 90% MCR and 15% sea margin).

### TECHNICAL PARTICULARS

Length oa: ..... 210m  
 Length bp: ..... 204.5m  
 Breadth moulded: ..... 28m  
 Depth moulded: ..... 18m  
 to main deck: ..... 9.5m

to upper deck: ..... 18m  
 Draught  
 Max summer: ..... 7.3m  
 design: ..... 6.5m  
 GT: ..... 28,709  
 Deadweight: ..... 15,631.34t  
 Speed, service: ..... 90%MCR output 20.5knots  
 Bunkers (m<sup>3</sup>)  
 Heavy oil: ..... 1,243.5  
 Diesel oil: ..... 68.9  
 Water ballast (m<sup>3</sup>): ..... 8,853.8  
 Daily fuel consumption (tonnes/day)  
 Main engine only: ..... 71.4tonnes/day  
 Auxiliaries: ..... without (Normally shaft generators are used)

Classification society and notations: ..... LR  
 +100A1, Roll on Roll off Cargo Ship, Ship-Right (SDA, CM, ACS(B)), LI, \*IWS, +LMC, UMS, NAV1, IBS, ICC, CAC2 with descriptive notes: ShipRight (BWMP(T)), SCM), GR(A), EDD  
 Propulsion  
 Design: ..... MAN Energy Solutions  
 Model: ..... 9S40ME-B9.5  
 Manufacturer: ..... Hyundai Heavy Industries  
 Number: ..... 2  
 Type of fuel: ..... HFO & MGO  
 Output of each engine: ..... 10,215kW  
 Propeller(s)  
 Material: ..... Ni-Al-Bronze  
 Designer/Manufacturer: ..... Kongsberg Maritime AB (Rolls-Royce)  
 Number: ..... 2  
 Fixed/Controllable pitch: ..... Controllable  
 Diameter: ..... 5,000mm  
 Speed: ..... 146rpm

Main-engine driven alternators  
 Number: ..... 2  
 Make/type: WE-TECH/PMM1780-115-1000M  
 Output/speed of each set: ... 1,780kW/146rpm  
 Diesel-driven alternators  
 Number: ..... 3  
 Engine make/type: ..... MAN 9L21/31  
 Type of fuel: ..... HFO&MGO  
 Alternator make: ..... ABB  
 Output/speed of each set: ... 1,881kW/1,000rpm  
 Exhaust-gas scrubbing equipment  
 Manufacturer: .. YARA Marine Technologies AB  
 Type: ..... GTM-R  
 Boilers  
 Number: ..... 2 sets of economiser & 1 set of thermal oil heater  
 Make: ..... Alfa Laval Technologies Co., Ltd  
 Output, each boiler: ..... 500kW/1,000kW  
 Bow thruster(s)  
 Make: ..... Rolls-Royce  
 Number: ..... 2  
 Output (each): ..... 2,000kW

Rudders  
 Make: ..... 2 x Rolls-Royce high lift with flaps and Promas bulb  
 Other cranes  
 Number: ..... 2  
 Make: ..... Jiangsu Masada Heavy Industry Co.,Ltd  
 Type: ..... hydraulic crane  
 Tasks: ..... lifting provision  
 Performance: ..... 3t-7m/3t-14m  
 Mooring equipment  
 Number: ..... 7  
 Make: ..... Rolls-Royce  
 Type: ..... electric  
 Lifesaving equipment  
 Number of each and capacity: ..... 2 x 34-person davit-launched lifeboats  
 Make: ..... Hatecke  
 Type: ..... GSL5.5C  
 Vehicles  
 Number of vehicle decks: ..... 3  
 Total lane length: ..... 2,994 or 3,553 (Mafi rolltrailers) and 320m for cars/vehicles  
 Total freight units (on rolltrailers): ..... 714TEU  
 Doors/ramps/lifts/moveable car decks  
 Number of each: ..... 1 stern ramp  
 Type: ..... electric operation  
 Ramps: ..... Fixed ramp from maindeck to upperdeck / Fixed ramp from maindeck to tanktop  
 Designer: ..... MacGregor  
 Ballast water treatment system  
 Make: ..... Alfa Laval Technologies Co., Ltd  
 Capacity: ..... 1,000m<sup>3</sup>/h  
 Complement  
 Officers: ..... 14  
 Crew: ..... 10  
 Drivers: ..... 12  
 Navigation and other equipment  
 Bridge control system  
 Make: ..... Kongsberg  
 Type: ..... K-Bridge  
 Is bridge fitted for one-man operation? ..... Yes  
 Integrated bridge system: ..... Yes  
 If yes, make: ..... Kongsberg  
 Model: ..... K-Bridge  
 Radars  
 Number: ..... 4  
 Make: ..... Kongsberg  
 Model(s): ..... 703038/703093/703041  
 Fire detection system  
 Make/Type: ..... Consilium / Salwico Cargo  
 Efficiency  
 Installed Fuel Meters: ..... mass flow  
 Other installed monitoring tools: .. shaft torque and power measuring system; propulsion shaft-line static and dynamic measurement system.  
 Launch/float-out date: ..... 17 March 2018  
 Delivery date: ..... 25 October 2018



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