



## TSUNEISHI HEAVY INDUSTRIES (CEBU), INC.

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# Tsuneishi launches first ‘Eco-ship’ TESS58 Aeroline



SC-220 launching ceremony at Tsuneishi Heavy Industries (Cebu), Inc. Slipway No.2, Balamban, Cebu

Tsuneishi Heavy Industries (Cebu), Inc. (THI) launches its first ‘Eco-ship’ TESS58 AEROLINE, SC-220, a 58,000 DWT metric ton type bulk carrier on December 8, 2014.

The TESS58 AEROLINE is a premium class vessel featuring the higher fuel efficiency design of the TESS58. AEROLINE is a new technology for reducing wind resistance, which combines the cut-corner design for the accommodation corner in previous models with a newly developed streamlined shape for the fore upper bow, for a 10% reduction in wind resistance. The fore upper bow has been rounded, giving the ship a stylish streamlined design.

Designed for low fuel consumption, the TESS58 AEROLINE is equipped not only with AEROLINE technology but also with The Generator Engine Waste Heat Recovery Unit that allows collection of



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exhaust heat from the generator engine equipped in the ship as a heat resource. The unit converts the heat to energy for the auxiliary boiler and can reduce the auxiliary boiler's fuel consumption by 12-25 %. This technology was developed jointly with MIURA CO., LTD. in 2013.

It is also equipped with TOP-GR (Tsuneishi Optimized Propulsive Gear) propellers for lower vibration and higher propulsion efficiency where precise computer-based calculations and simulations were carried out to develop an energy-saving propeller, with every detail from blade number, diameter, aerofoil shape, and blade geometric distribution optimal design.

It is also supported with Fresh Air Intake System (FAIS) that boosts engine fuel efficiency. In this system, air ducts are installed in the starboard bridge wing pillars so that cool outside air is supplied directly to the engine for the greater fuel efficiency.

TESS58 Aeroline was first introduced to the media during a familiarization tour of THI shipyard held last September 16, 2014. Other new ship models introduced were D/W 35,300 MT, and TESS45 Box type.

SC-220 is expected to be delivered this coming March.

### **Deliveries**

THI recently delivered two vessels last January 9 and 22; a 82,000 deadweight metric ton type Kamsarmax bulk carrier, SC-226 M/V Capricorn Trader, and a 58,000 deadweight metric ton type Handymax bulk carrier, SC-231 M/V Kellet Island respectively.

M/V Kellet Island is en route to Hongkong, while M/V Capricorn Trader is bound to Singapore for bunkering then cargo loading in Australia. Both ships are Japanese-owned nationals.

Since inception, THI delivered 191 ships including 20 ships delivered in 2014. This year THI is set to deliver 21 ships; Three D/W 35,300 MT type, 10 D/W 58,000 MT type four of which are TESS58 Aeroline, seven D/W 82,000 MT Kamsarmax type, and one D/W 180,000 Cape-size bulk carrier.

“Our shipbuilding business led by Tsuneishi Shipbuilding is continuously seeking for ways to build ships that are competitive in quality, price, delivery lead time and an eco-friendly performance. We are building Tsuneishi flagship products, and therefore we are united to deliver excellent ships. Tsuneishi



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Heavy Industries has maintained and always will have ‘Only the Best, World-Class Tsuneishi Quality’, said Mr. Akihiko Mishima, THI new president.

Tsuneishi Heavy Industries (Cebu), Inc., one of the leading shipbuilders in the world is a joint venture between the Tsuneishi Group and Aboitiz Group.

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