

October 17, 2024

Kawasaki Kisen Kaisha, Ltd.

LNG-fueled Car Carrier “POSEIDON HIGHWAY” with a 7,000-vehicle Capacity Delivered

A car carrier with a capacity of 7,000 vehicles has recently been delivered to Kawasaki Kisen Kaisha, Ltd. (“K” LINE). The vessel is mainly fueled by liquefied natural gas (LNG) and has been constructed at the Marugame Headquarters of Imabari Shipbuilding Co., Ltd. (Imabari Shipbuilding).

A naming ceremony was held on the day of the delivery, and the vessel was named POSEIDON HIGHWAY (the “Vessel”) by Mr. Kyogo Onoue, Chief Officer of the TPS Group, Toyota Motor Corporation (Toyota).

LNG fuel is expected to reduce emissions of carbon dioxide (CO₂), a greenhouse gas (GHG), by 25% to 30% and emissions of sulfur oxides (SO_x), which cause air pollution, by almost 100%. This is also a next-generation environment-friendly vessel that is expected to cut emissions of nitrogen oxides (NO_x) by 80% to 90% by using EGR (exhaust gas recirculation) in addition to LNG fuel. It is equipped with the dual-fuel electronic control engine “6S60ME-C10.5-GI-EGRBP” by MAN Energy Solutions.

Also, with regard to fire safety measures that “K” LINE has been working on for some time, this is the first of its new car carriers to acquire the ClassNK notations (Fire Fighting) (Electric Vehicle). Including this Vessel, five car carriers operated by “K” LINE have acquired notations.

In “K” LINE Environmental Vision 2050 -Blue Seas for the Future-^{*1}, it has set the 2030 interim target of improving CO₂ emissions efficiency by 50% compared with 2008, surpassing the IMO target of a 40% improvement. Furthermore, it sets its new target for 2050 as “The Challenge of Achieving Net-Zero GHG Emissions.” As an action plan, it will continue to work on the introduction of new fuels which have a low environmental impact and take on the challenge of achieving the targets it has established.

[Vessel Particulars]

Main Measure: LOA 199.90 meters x Beam 38.00 meters x Depth 38.76 meters x Draft 9.30 meters
Gross Ton: 77,509
Main Engine: 6S60ME-C10.5-GI-EGRBP
Speed: 18.25 KTS
Class: ClassNK
Flag: Japan
Builder: Marugame Headquarters, Imabari Shipbuilding

*1. "K" LINE Environmental Vision 2050: Blue Seas for the Future

As part of our action plan to reduce GHG, it is engaged in a number of initiatives, for instance introducing zero-emission fuels such as ammonia and hydrogen fuels, and carbon-neutral fuels such as bio-LNG and synthetic fuels.

<https://www.kline.co.jp/en/sustainability/environment/management.html>

[POSEIDON HIGHWAY]



[Naming and Delivery Ceremony]



From left

Senior Managing Executive Officer Takenori Igarashi, "K" LINE

President & CEO Yukikazu Myochin, "K" LINE

Chief Officer Kyogo Onoue, TPS Group, Toyota

Manami Takemoto, daughter of Chief Officer Onoue, TPS Group, Toyota

Kiyoshi Higaki, Executive Senior Managing Director, Imabari Shipbuilding