

### - Service Deployment -



### - THE Alliance (Asia - North Europe) FE2 -

Port Rotation: Xingang, Dalian, Qingdao, Shanghai, Ningbo, Hong Kong, Yantian, Singapore, Tangier, Southampton, Hamburg, Rotterdam, Le Havre, Tangier, Jebel Ali, Hong Kong, Qingdao, Xingang

### Easy-to-Retrofit SOx Scrubber

- Other than allowing the option of using LNG as a fuel, MOL is carrying out a feasibility study to allow retrofitting of an SOx scrubber.

### Full Spade Twisted Rudder

- The adoption of the twisted leading edge and the bulb with round-shaped center front, placed in front of the rudder ensures vortex energy recovery of the propeller slipstream.

### Highly efficient Propellers

- Optimized angle of the propeller blade tips increases propeller efficiency by about 1%.

### Rectifier Fin

- By optimizing the flow of the water coming into the propellers, energy savings of 1.5-2% are expected.

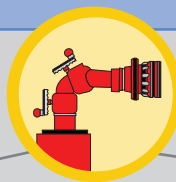
### - How long is MOL Triumph? -

Empire State Building (Height: 381m)

Airbus A380 (73m) Truck (30m) Neo-Panamax (337m) MOL Triumph (400m)

### - Vessel Specifications -

Length ..... 400 m  
Breadth ..... 58.8 m  
Depth ..... 32.8 m  
Deadweight ..... 192,672 MT  
Reefer Plug ..... 1,500 units  
Shipbuilder .. Samsung Heavy Industries Co., Ltd



### Fixed Water Monitor for On-deck Container Firefighting

- Big water cannons are equipped on the bridge and each of the funnel tops for on-deck firefighting.

### Low-friction Hull Paint

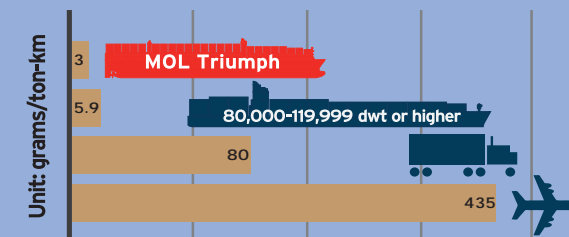
- The paint significantly reduces drag and improves fuel efficiency.

### Optimized Hull Form

- Design refinements in the bow and stern of the hull, and the optimized bulbous bow shape are expected to realize a 4.5% boost in fuel efficiency.

### - CO2 Emission Comparison -

Comparison of CO2 Emissions from Aircraft, Trucks, Ocean Vessels and MOL Triumph



Source: ISC

## MOL Triumph - 20,170 TEU Containership

### Ballast Water Treatment System

- The system meets the requirements of the Ballast Water Management Convention.

### A Retrofit Option for LNG Fuel

- MOL is carrying out a feasibility study to allow the ship to run on LNG fuel so as to limit SOx emissions.

### - Comprehensive Eco Sailing -

"Eco Sailing" - MOL promotes the most effective use of energy by limiting energy loss through the energy flow of the vessel, thus saving fuel and reducing emissions. Specifically, we take measures as follows:

1. Adjust vessel speed to reduce fuel costs without harming on-time performance
2. Pay close attention to forecasts of weather and ocean conditions and maintain optimal trim
3. Select the optimal route
4. Optimize operation and maintenance of machinery and equipment