

SOPass

Ship Operation and Performance Analysis Support System



2022

Kawasaki
Ecological Frontiers
S class

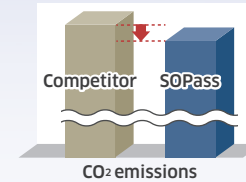
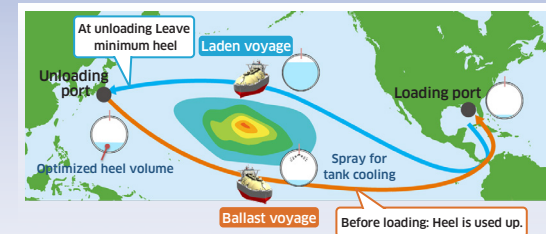
Initial registration: 2019

Weather routing and BOG* management functions significantly reduce fuel consumption and improve transport efficiency

SOPass selects optimum routes under the relevant navigation limitations based on the motion and resistance of the ship and weather forecast information. As a result, equipping ships with SOPass reduces CO₂ emissions an average of 3%.

On LNG carriers, SOPass improves transport efficiency by using a thermal simulation model to estimate BOG volume and the amount of heel required for the next voyage.

* BOG: Boil-off gas, natural gas that naturally evaporates during transport



* Heel: A small amount of LNG remaining on board a vessel after unloading LNG cargo that can be used for cooling cargo tanks and as fuel on a ballast voyage.

Weather routing

Performance analysis

Maintenance management

BOG management

Product Description

A ship operation and performance analysis support system that helps ships operate efficiently using data analysis and predictive functions that combine data from ships with knowledge of naval architecture

Features

- Main functions: Weather routing, performance analysis, maintenance management, and BOG management
- Customers can select functions to meet their specific needs