SOPass
Ship Operation and Performance Analysis Support System

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

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

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

Weather routing
- Before loading: Heel is used up
- At unloading: Leaves minimum heel
- Spray for tank cooling
- Ballast voyage
- Optimized heel volume

Performance analysis
- Loading port
- Unloading port

Maintenance management
- Competition
- SOPass

BOG management
- 3% average reduction
- Unloading port
- Laden voyage

* 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.