

MITSUI E&S Co., Ltd.

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FALCONs

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Reducing Fuel Consumption and CO2 Emissions Through Hull Fouling Control

Main Features

- "Propulsion Performance Analysis"
"Propulsion Performance Analysis" is conducted using main engine data and navigation data, eliminating the effects of external disturbances such as sea waves and wind to estimate fuel efficiency.
- "Fouling Evaluation"
FALCONs utilizes AI to perform high-precision quantitative evaluations and progress predictions of hull fouling for cleaning decisions, which were previously based on intuition and experience.
- Integrating "Fouling Evaluation" and "Propulsion Performance Analysis"
 - By integrating "Fouling Evaluation" and "Propulsion Performance Analysis," we can predict and propose "when and what" to clean for optimal improvement based on actual data.
 - It also allows for quantitative calculation of the fuel savings and CO2 reduction effects from cleaning.



Target User
Ship Owner,
Charterer,
Ship Manager

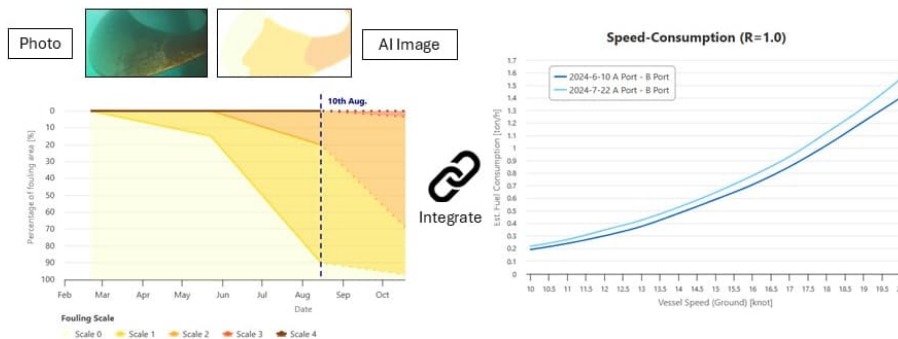
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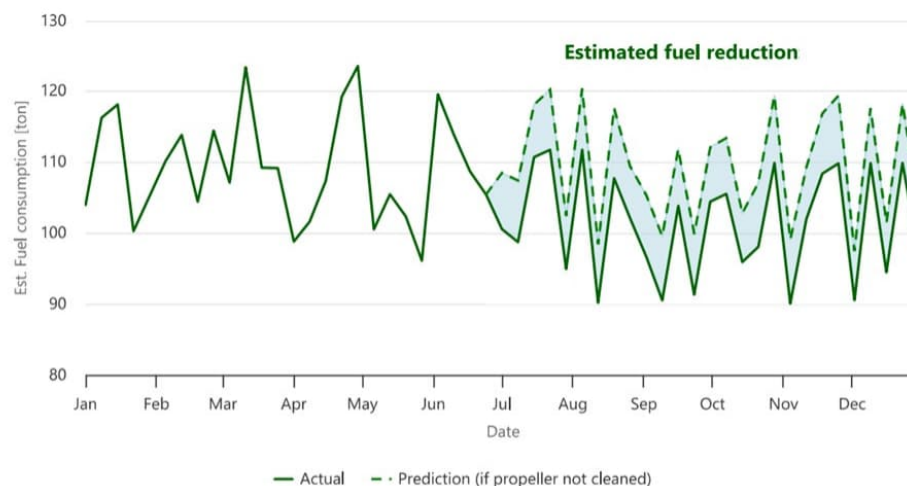
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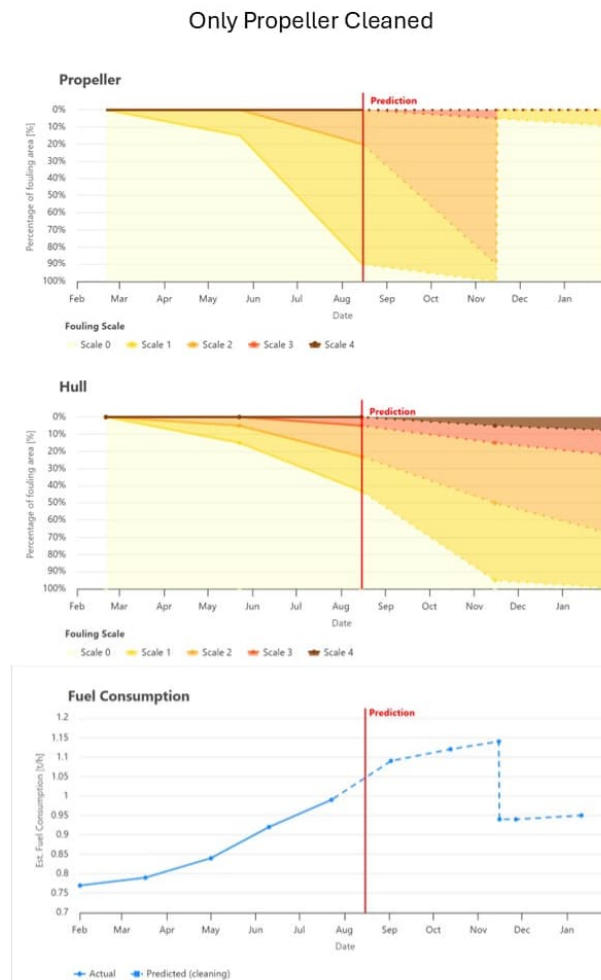
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AI-powered Fouling Evaluation X Propulsion Performance Analysis



Quantification of Cleaning Effects



Prediction of Fuel Consumption Based on Different Scenarios