

ABS Wavesight™ My Digital Fleet

Practical Application Case Study

Vessel & Voyage Performance

Challenge

A major dry bulk owner-operator, specializing in Handysize to Supermax vessels, wished to better analyze their fleet performance and optimize their voyages for the purpose of improving operational efficiency and increasing margins.

Solution

Integration of ABS Wavesight's My Digital Fleet vessel performance software and Sofar Ocean's Wayfinder™ voyage guidance system.

ABS Wavesight's My Digital Fleet features a robust Alliance Program, which includes an ecosystem of industry-trusted partners of data and intelligence, technology and service providers to accomplish critical business outcomes for clients through integrated insights on one digital platform.

In this case, an integration of our My Digital Fleet software (including the My Dashboard, Daily Fuel Monitor, Vessel Performance Monitor and Environmental Monitor modules) with partner Sofar Ocean's Wayfinder voyage guidance system was deployed across the client's fleet. Through the deployment of this integrated software solution, the client was provided with dynamic voyage routing guidance and now has access to real-time analytics into key vessel performance metrics such as power, speed, resistance, fouling summaries, daily fuel consumption and CII monitoring.

Results

Voyage Optimization

The client was presented with 10 dynamic route suggestions across multiple voyages to optimize soles and waypoints, and avoid unfavorable weather and/or sea conditions, of which 7 were accepted. For these 7 adjusted routes, the average fuel savings equaled 12.3 MT per voyage, resulting in an average overall cost savings of US\$10,011 per voyage.

Global Fleet Performance Monitoring

My Digital Fleet's Daily Fuel Monitor enabled the client to validate incoming vessel fuel consumption data and immediately flag anomalies for more accurate vessel reporting. This visibility allowed for continuous CII monitoring and reporting and empowered real-time decision-making for improved fuel efficiency, leading to material improvements in ratings of 2–3%.

In one specific example of two sister vessels, live vessel performance insights also provided an opportunity to improve daily fuel consumption by 10% on one vessel and 5% on another leading to a combined 3.8 MT/day of fuel savings. Our solution also centralized global fleet operation insights, enabling transparent communication of metrics across all levels of the organization.



ABS WAVESIGHT

1701 City Plaza Dr. | Spring, TX 77389 USA

P 1-281-877-6000 | F 1-281-877-5976

support@abswavesight.com

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