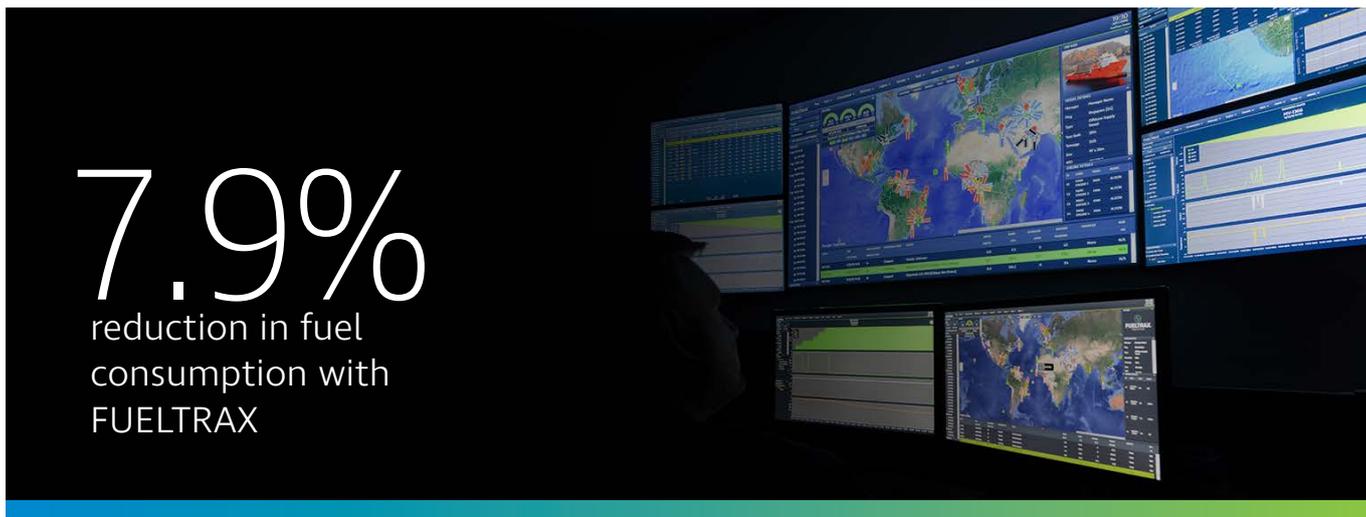**∿ FUELTRAX®**

FUELTRAX ALERTS DETECT & PREVENT OVERCONSUMPTION BY 7.9%

Installing FUELTRAX ensures greater accountability and delivers efficiency and emissions reduction for vessel owners

7.9%
reduction in fuel consumption with FUELTRAX

The challenge: In April 2020, routine monthly audits of a fleet consumption profile showed multiple vessels outside expected parameters. The observed anomaly was present in multiple vessels over-consuming by 50% or greater than the rest of the fleet, and detected in 2 operational profiles.

In maintaining position ("DP") or "Standby" mode: Multiple vessels were using more engines than recommended by operational procedures compared to other vessels in the same operating time and weather conditions.

In "Underway" mode: Multiple vessels in transit were not using the BestEconomy and BestSpeed throttle optimization algorithms and were traveling at suboptimal speeds on regular routes.

The solution: FUELTRAX active monitoring algorithms detected this anomaly by comparing to proprietary fleet benchmarks, which called for further investigation. Upon investigation, the FUELTRAX team then recommended creating two new alert types within FUELNET, the logistics web portal.

These alerts ensure continued compliance with operating parameters and proactively notify of overconsumption - which allows for immediate corrective action to be taken, resulting in greater savings potential for the fleet. Alerts are customized to monitor key performance indicators (KPIs), including time, speed, location, proximity, burn rate and total, transfers, and remaining on board (ROB).

The process: Two alerts were created to address the over-consumption in these modes.

In maintaining position ("DP") or "Standby" mode: A FUELNET Operational Alert was created to ensure the charterer's efficiency and operational guidelines are being followed. The alert was created for engine use based on GPS proximity to specific assets. If engine use above operational

guidelines is detected, an automatic email is sent to management to alert of excess fuel consumption in real-time.

In "Underway" mode: A FUELNET Operational Alert based on speed and throttle optimization usage was created to generate automatic emails to management. Travel times and locations were analyzed to determine that FUELTRAX on board throttle optimizations algorithms could be used at least 50% of the time during Underway operations.

The results: Within 3 to 4 days of the detected anomaly, the recommended changes and alerts were implemented, and the vessels in question were consuming within acceptable parameters. Today, these changes and alerts remain active for the entire fleet to detect and prevent future overconsumption. Compared to the annual trend, alerts for "Underway" mode have resulted in a decrease in total annual consumption of 7.9%.

The benefits: The vessel owners gained easy access to digital tools, data, and vessel insights necessary to prevent fuel waste, and proactively monitor the fleet for anomalies. Further, they were able to present this data as a deliverable to their client and increase the transparency of their operations.

The vessel owner also benefited from drastic emissions and cost reductions, improving overall operational efficiency. These changes prevented unnecessary overwork of the engines for the vessel owners and eliminated unnecessary emissions through efficient fuel usage. Overall, FUELTRAX improved management of the fleet and its consumption.

Talk to FUELTRAX to find out how we can help you to reduce fuel costs and emissions, and maintain fuel security.

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