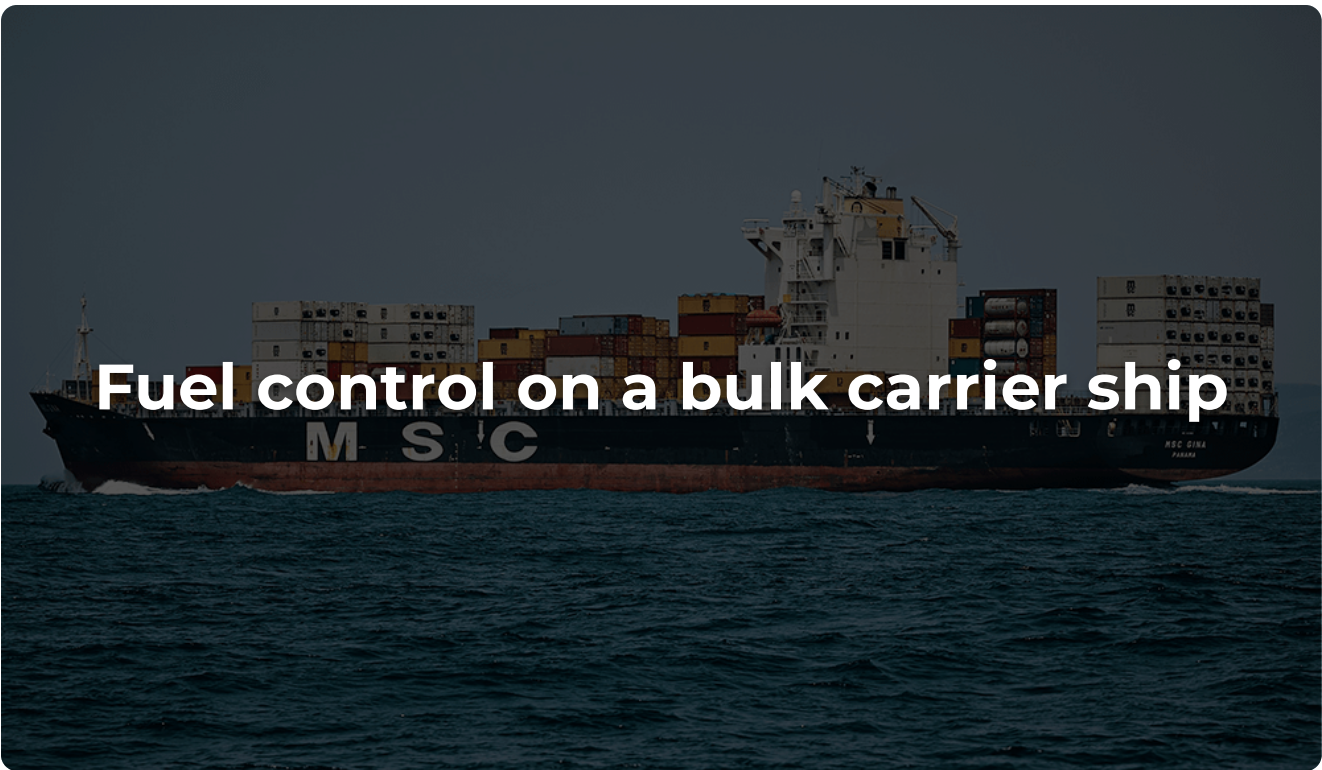




Fuel control on a bulk carrier ship

Challenge

A bulk carrier has one big tank catering for two engines, two diesel generators, and a heating boiler. The overall fuel consumption depends on the work of each of these units. To get the exact numbers and optimize the consumption, it is vital to understand which of the elements are actually working and in what mode. But because of the ship’s characteristics, it is not enough just to install a [fuel level sensor](#) or a flow meter.

Solution

The partner equipped each element consuming fuel with DFM fuel flow meters with CAN S6 interface. Five flow meters were connected to [Galileosky 5.0](#) GPS tracker through a single telematics bus.

The data on hourly and total consumption for each engine in different modes and their operating hours are transferred to [GPS tracking platform](#) Wialon through the tracker. Additionally, the dispatcher gets the info on the fuel temperature and engine rotation speed. It is displayed in Sensolator web-application in the form of charts, bars, and pointer indicators, so the dispatcher has a digital control panel to monitor the sensors and flow meters values in real time.

Results

 **2x**

Fuel consumption was reduced by half: 10 tons for a two-week trip instead of 20

 **Paid off**

The cost of equipment and works on the installation paid off already during the very first trip with the fuel monitoring system.

Company profile

Industry: Water transportation

Solutions

 Wialon

 Fuel monitoring system

Hardware

 Galileosky v 5.0

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