# Fuel control on a bulk carrier ship

## Problem

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 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 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.

## Implemented products

Wialon Hosting

## Result

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

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

### Company profile

**Country:**
Russia

**Industry:**
River cargo transportation

**Monitoring unit:**
Bulk carrier ship