



Application





River ships and boats

Sea/river ships and boats

Small and medium marine vessels



Advantages of telematics system

✓ Cutting costs for fuel and maintenance

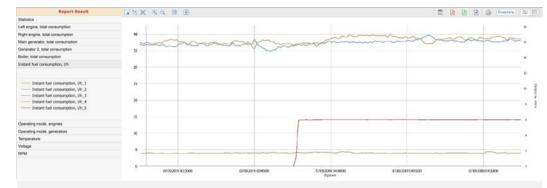
✓ Increasing vessel life cycle

✓ Reducing vessel idle time

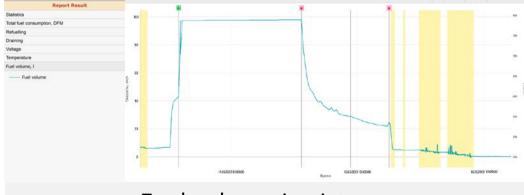
✓ Receiving actual information for managerial accounting

TECHNOTON ADVANCED VEHICLE TELEMATICS

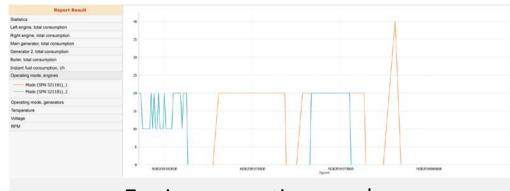
Data display in telematics service



Fuel consumption



Fuel volume in cisterns



Engine operation modes

Report Result	Date, time	First volume	Final volume	Draining	Amount
Statistics	12.09.2019 04:20:30	788 1	557 1	231	1
Total fuel consumption, DFM	15.10.2019 04:20:17	557	534 1	231	1
Refuelling	22.10.2019 08:30:29	554 1	469 1	64 I	1
Draining					
Voltage					
Temperature					
Fuel volume, I					
Fuel volume					

Preventing fuel theft

Tasks





 $\overline{\textcircled{}}$

Fuel consumption monitoring – engines, generators, boiler

Machine running time tracking – engines, generators, boiler



Monitoring bunkering volumes and fuel residue in supply tank



Preventing fuel theft



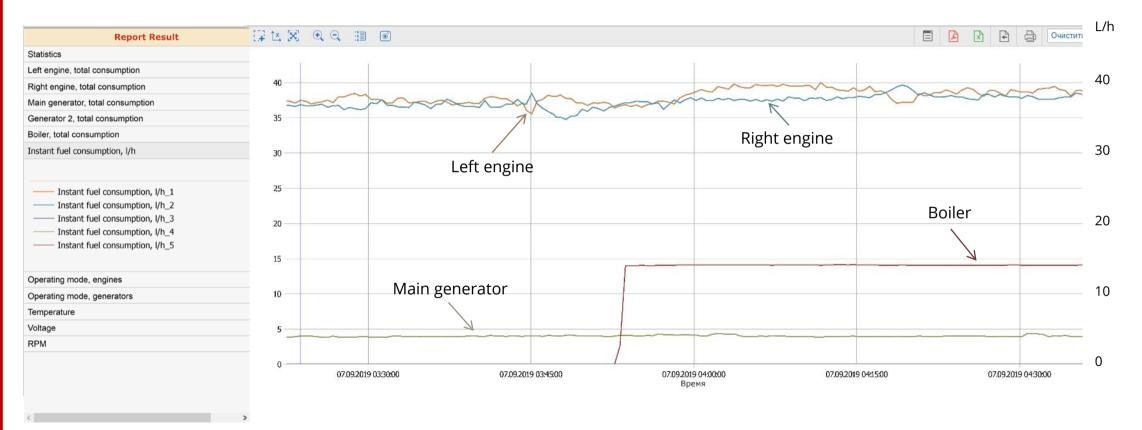
Operation parameters monitoring by ship crew



Remote engine diagnostics

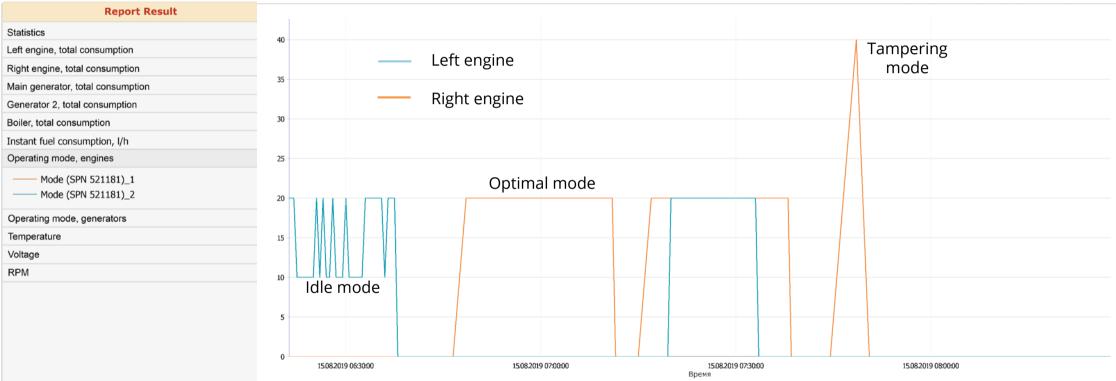
Task/ Fuel consumption monitoring





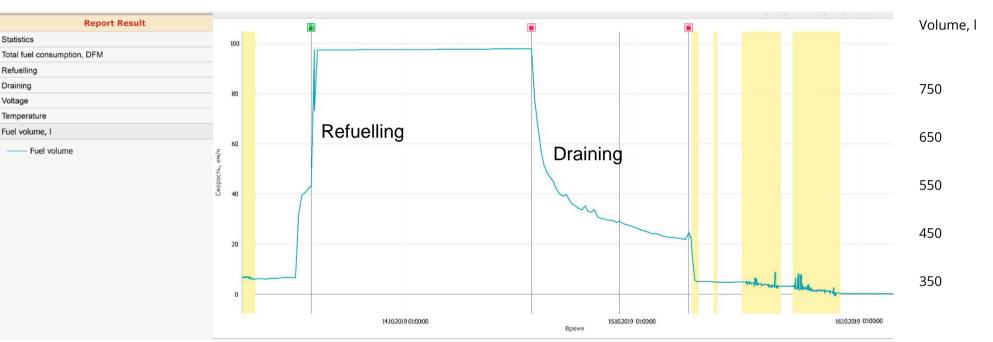
Exact fuel consumption accounting of each consumer- engines, generators, boilers

Task/ Machine running time tracking



Operation monitoring of each diesel engine by operating modes

Task/ Bunkering and supply tank monitoring



Measurement of fuel volume filled into tank

Drawing up "volume-to-mass" correspondence table of fuel given out

Monitoring fuel residue inside supply tank



Task/ Preventing fuel thefts

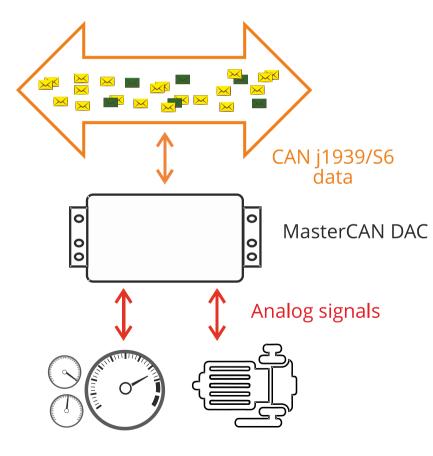


Report Result	Date, time	First volume	Final volume	Draining	Amount
Statistics	12.09.2019 04:20:30	788	557	231	1
Total fuel consumption, DFM	15.10.2019 04:20:17	557	534 I	23	1
Refuelling	22.10.2019 08:30:29	554 I	469	64 I	1
Draining					
Voltage					
Temperature					
Fuel volume, l					
Fuel volume					

Preventing fuel theft from tanks and fuel lines

TECHNOTON Advanced vehicle telematics

Task/ Integration of signals from standard and additional equipment



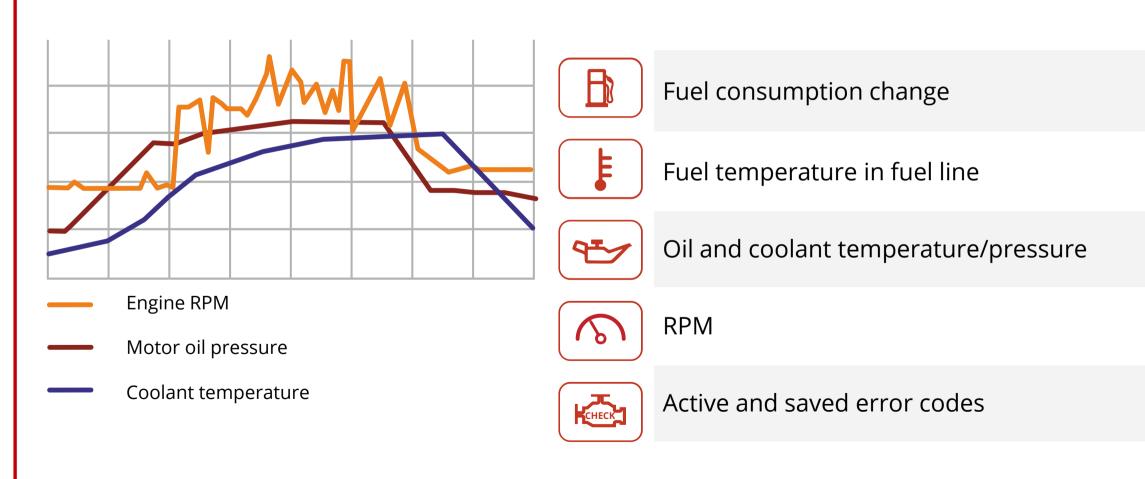
Sending digital data from telematics system to dashboard and analog gauges:

- Fuel level and volume.
- Fuel temperature.
- Temperature and pressure of technical liquids.

Control of pumps or other standard equipment using telematics system data

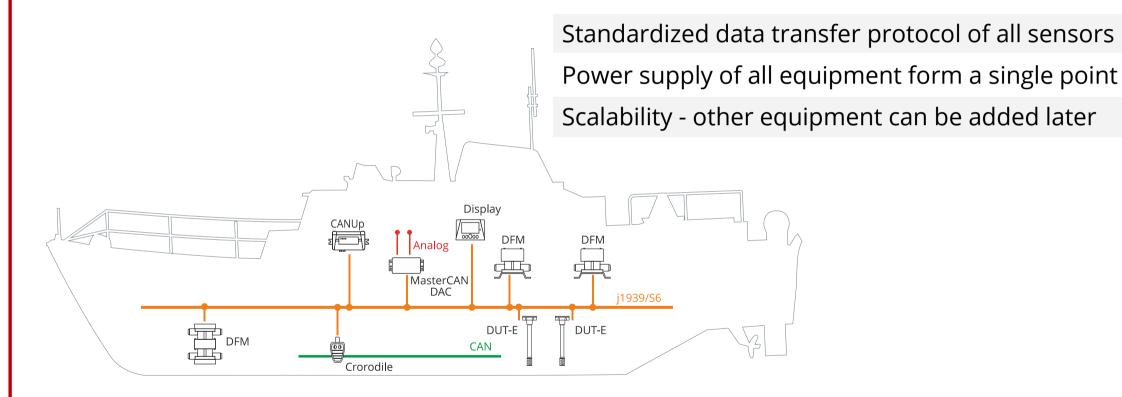
Task/ Remote engine diagnostics





S6 Technology





Cabling system of S6 Technology uses bus principle and allows connecting onboard equipment to a single CAN-port of telematics gateway

Equipment/ Fuel flow meters



Fuel rate measurement, fuel consumption monitoring and machine running time tracking, total and split by engine operating modes.



Measures diesel fuel, heating oil, naval fuel oil.

Flow range 0,001 – 25 m³/h, fuel temperature up to 130 °C

Equipment/ Fuel level sensors





- Measurement of fuel residue (level and volume) in tank.
- Measurement of tank refilling volumes.
- Detection and alerts on fuel draining from tank.
- Fuel temperature measurement.
- Suitable for all diesel fuel types, inaccuracy is 1%.

Equipment/ Telematics gateway





Data receiving from information buses, standard or additional sensors.

"On board" data processing on the vessel units operation and reports transmission to the telematics server.



Various channels for reports sending : 2G, 3G, SMS, e-mail, Wi-Fi, Watson, MQTT, Amazon.

Sea and river vessel telematics Equipment/ CAN tools











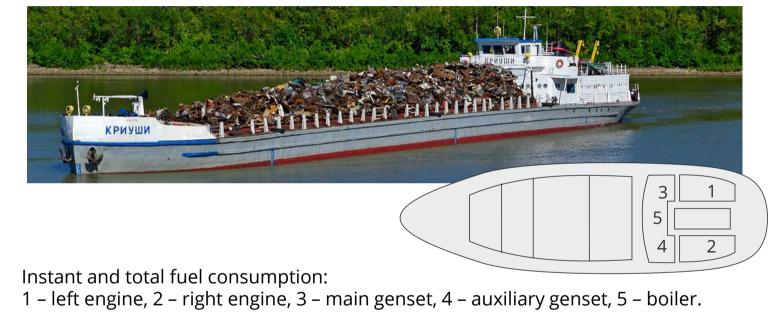
CANCrocodile – safe non-intrusive (no electrical contact) data reading from CAN buses, data transfer to telematics unit.

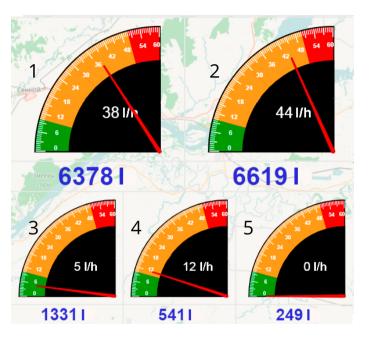
CAN Display – gathering and showing data from CAN bus, standard or additional analog and CAN j1939 sensors.

CAN i/o module – integration of analog signals of standard equipment to telematics system and vice versa.

Case/ River cargo ship







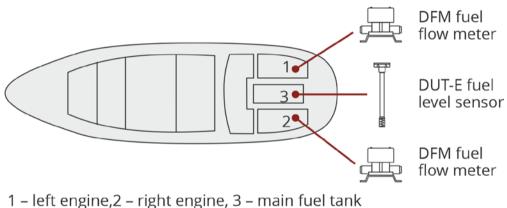
Real-time monitoring of instant and total fuel consumption, each engine's hours of operation. Real fuel consumption appeared to be two time less, than quota.

Economy – **56 USD per ho**ur of ship operation.

Case/ Marine vessel







Fuel consumption, engine operation time and fuel volume in tank are monitored online. Fuel theft from tank was minimized.

Savings – 125 USD per operation hour!

Summary



Reliable information gathered by vessel telematics system provides fleet owners opportunity to:

- eliminate fuel theft and reduce overall fuel costs;
- monitor real operation time and exclude machinery idling;
- check engine health and avoid extra repair costs;
- ✓ lower maintenance expenses and extend lifetime of engines;
- ✓ increase transparency of operations and accounting data.

Learn more

Official web-pages

More about S6 Technology

More about IoT Burger Technology

Document center

YouTube channel

Follow us in social media

TECHNOTON



INT BURGER



unu do cointe cho otopo c

www.jv-technoton.com



in

/c/technotonen

/company/technoton



www.docs.jv-technoton.com

rd-technoton.com

rd-technoton.com

