

## Bespoke D-TX<sup>®</sup> **FUEL SAFE** unit for 55m Super Yacht will extend D-TX<sup>®</sup> Product Range

Safety is paramount when boating. Yet when we study the large number of incidents that lead to reduced safety and increased danger, we find that a lot of them involve water contamination of fuel. Most water in fuel comes from either condensation or poor supply but these are not the only reasons. The more complicated systems on super yachts make identification and monitoring of the cause of water contamination of fuel more difficult.



D-TX<sup>®</sup> **FUEL SAFE 250** h:200mm x w:375mm x d:100mm

The engineers on a Mediterranean 55m super yacht identified a serious problem in their fuel cooling system that made the fuel susceptible to water contamination en-route to the engines. Water-D-Tech (Global) Ltd. provided the only adequate solution. Their D-TX<sup>®</sup> **FUEL SAFE** unit will monitor the fuel flow in real-time giving instant diagnosis of the problem. A simple and secure solution, the D-TX<sup>®</sup> **FUEL SAFE** device gives a clear audio-visual alarm warning when it detects water in fuel contamination.

The problem arises because the super yacht engines use an excess of fuel to cool the fuel train. The fuel is returned to a day tank, reused by the engines and then run off. Before the fuel can be used again it has to pass through a seawater-cooled heat exchanger where seawater could enter the fuel/day tank. The engines would then be using the contaminated fuel potentially causing a catastrophic incident.

A new D-TX<sup>®</sup> **FUEL SAFE** unit was designed for the super yachts' 1" fuel flows in and out. It is fitted after the heat exchanger/seawater cooler and before the day tanks port and starboard. The audio-visual dash plate alarms are positioned for maximum benefit for the

engineers and helmsman. Dual open/closed relays allow the dash plates to be wired up to the vessel's existing alarm systems.

By monitoring the fuel real-time on its return to the day tank the D-TX<sup>®</sup> **FUEL SAFE** system provides a constant safeguard. The net result is time saved on diagnosis and financial savings on engine break down, component damage and down time – a serious cost on a fully manned commercial super yacht. The D-TX<sup>®</sup> **FUEL SAFE** requires minimal maintenance and no future part replacements making it a very cost effective solution in the short and long-term.

The new, larger D-TX<sup>®</sup> **FUEL SAFE** version will handle ¾" (18mm) to 1" (25mm) fuel feeds on any vessel not just super yachts. The positioning of the fuel flows in and out are manufactured according to the specific fuel delivery and return requirements of each vessel.

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