

### Low Sulphur Marine Gas Oil Conversions – Hamworthy Leads the Way!!

As a result of several months of technical and commercial negotiations, Hamworthy's excellent reputation and professional approach has resulted in the first orders for conversion of main marine boilers to fire low sulphur marine diesel to meet new EU directives. Shell International Trading and OSG Ship Management have placed the orders for the materials for a total of 19 ship conversions with a value of around £1million.

With the advent of ever tightening emission regulations being introduced to marine vessels, the use of Heavy Fuel Oil for steam generation when the vessel is docked in European waters is due to be phased out over the coming years. This is detailed within directive 2005/33/EC of the European Parliament and culminates in the eventual outlawing of using Heavy Fuel Oil when sailing in European waters and when the vessel is alongside port.

The first step towards the implementation of this directive 2005/33/EC will be an imposed restriction on the use of Heavy Fuel Oil whilst the vessel is docked in any European port. This will commence in January 2010.

The outcome of this directive is that all existing burner equipment supplied for firing heavy fuel oil will require modifications to suit the low sulphur distillate fuel oil (<0.1% Sulphur) to enable oil firing for steam generation should the vessels trade in European waters.

Hamworthy have again led the way in advising all ship owners and operators on the requirements on the conversion of both their main and auxiliary boilers. These conversions are focused on the additional safety requirements for combustion of distillate oils and as such the following conversion kit has been produced and offered for the conversion of HXG and DF burners.

- Set of Atomiser Tips Suitable for HFO and MGO.
- Set of Oil Sprayer Gun Assembly Suitable for HFO and MGO with Atomising Steam
- Set of High Energy Ignitor Exciter Unit Complete With Spark Diagnostic Feedback.
- Set of Smartscan 121 Flame Scanner Units.
- Relevant Spares In Accordance With Classification Society Regulations.
- Relevant Classification Society Approvals For Proposed Equipment.

Hamworthy's worldwide service coverage also enables them to offer a full turnkey package to the shipping companies to project manage the conversion work including supply and installation of pump sets and pipework along with controls modifications and commissioning.

Ongoing discussions with many shipping companies should provide Hamworthy once again to show the excellent capabilities they have to offer total combustion solutions to a wide range of steam boiler users throughout the world.

