

PRESS RELEASE

15 February 2010

Auramarine offers a solution to using low sulphur fuels

Auramarine Ltd has been the world's leading manufacturer of fuel oil supply systems for ships for over 30 years. With over 10,000 skid mounted auxiliary units produced, Auramarine has superior experience in ship fuel systems and can offer fast, reliable and affordable service when the switch to low sulphur fuel is needed. The Auramarine solution includes planning, required technical equipment and alteration work. If the customer so wishes, the whole process can be carried out on turn-key basis.

Tightening legislation

Legislation concerning the sulphur emissions of marine traffic has changed. The strictest requirements have already come into force at European ports and in the United States, and policies will soon tighten elsewhere as well (see the links to IMO Marpol, CARB). Low sulphur fuels are undeniably and increasingly being favoured. During the first stage, ships will switch to low sulphur Marine Gas Oil when approaching a port or when in one.

Due to this legislation, the owners intended to ensure the protection of the environment. Luckily, the aim of lower sulphur emissions can be reached through relatively small changes in the engine room. The changeover to using Marine Gas Oil requires expertise in fuel systems, so that well-intentioned changes do not place the durability of the engines or maritime safety at jeopardy.

Engines are different and vary in their capacity to use the low sulphur Marine Gas Oil. In principle, MGO is suitable for any engine, provided that the modifications are made correctly.

Ensuring lubrication: number one priority

Because of the lower viscosity of Marine Gas Oil, the lubrication requirements of the engine manufacturer may not be met. In most diesel engines, the viscosity of the fuel needs to be at least 2.0 cSt. At normal temperature, the viscosity of MGO varies between 1-2 cSt, which means that sufficient engine lubrication can no longer be guaranteed. Viscosity can be improved with additives, but it is relatively costly. Fortunately, there is a more affordable way of ensuring proper lubrication and sufficient viscosity.

Auramarine MGO Handling System

The solution offered by Auramarine is simple and reliable. "Our equipment allows us to cool Marine Gas Oil even below 20 degrees centigrade, so that the viscosity and lubricity meet the requirements of the engine manufacturers. For cooling the MGO and for fuel feeding we use a system consisting of a chilling unit, a water circulation pump unit and a cooling unit," says Isto Sakkara, the sales and marketing director at Auramarine.

Stages of the changing process

The complete process has to include a report on the starting conditions, inspection of the existing equipment and alteration work. As a turnkey supplier, Auramarine can assume responsibility for the proper follow-through of all these stages.

For further information, please contact:

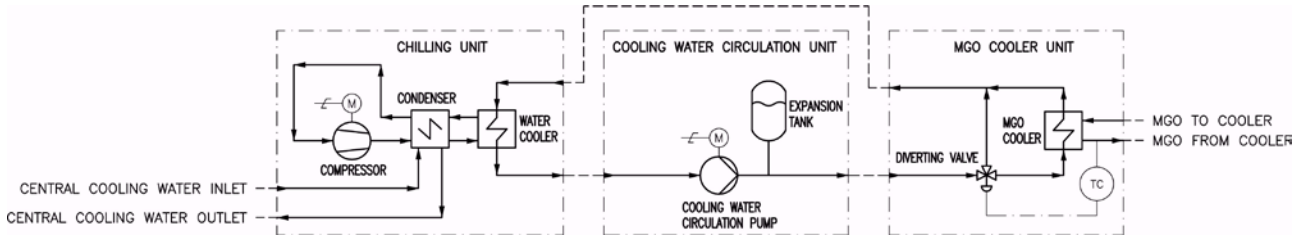
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About Auramarine Ltd

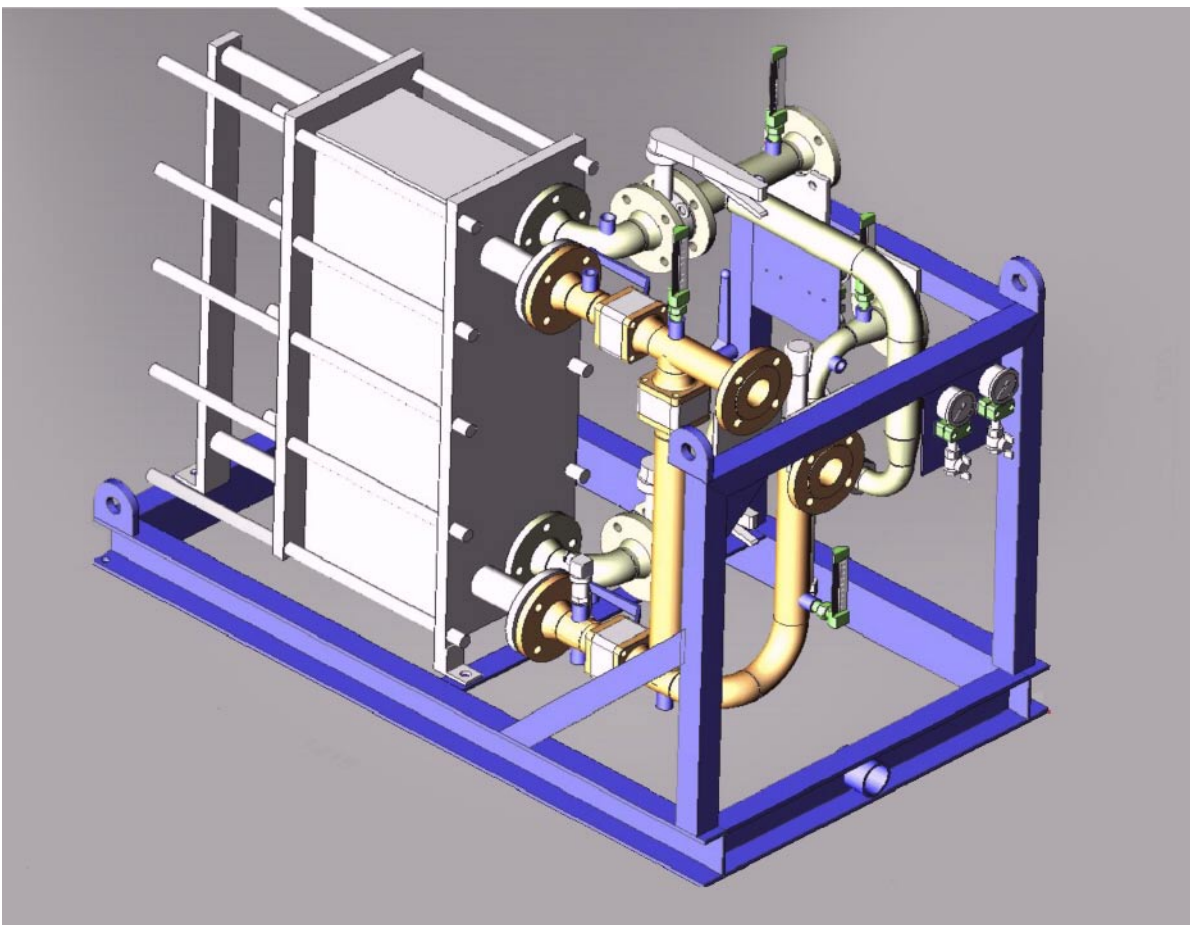
Auramarine is the world's leading supplier of auxiliary equipment for large diesel engines and marine industry. Auramarine products are designed and manufactured to suit all major diesel engines available as marine power sources today. Another customer segment of the company is the diesel based power station industry worldwide. The total number of skid mounted auxiliary units produced by Auramarine has exceeded 10,000 since their production began over three decades ago.

www.auramarine.com

Pictures of the system and the equipment:



Caption: Auramarine MGO Handling System consists of three units ensuring sufficient viscosity: the chilling unit, the circulating pump unit and the MGO cooling unit.



Caption: Picture showing the last module of the handling system, the cooling unit, which automatically adjusts the viscosity of the MGO to the preferred level.

Links: www.imo.org (IMO MARPOL Annex VI -2008)
www.arb.ca.gov (CARB)