## GET READY FOR 2020

CUSTOMISED UPGRADES FOR FUEL SYSTEMS

## - Is your ship ready to operate on fuels that are compliant with IMO 2020 emission regulations?

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Your ship's main and auxiliary engines may originally have been designed to run on fuels, the properties of which differ from the fuels that are favoured today due to the new regulations. Further, they may not have been designed for changeovers between fuels.

Maintaining the correct fuel viscosity, temperature and pressure at the engine inlet is crucial regardless of the fuel in use or the complexity of a particular fuel supply system.

In case the used fuel is off specification, the fuel supply and handling system components may be susceptible to leakages, clogging, thermal stresses, sensors malfunctions and other system instabilities, potentially caused by different fuel properties or incompatible fuel mix. Disturbancies in fuel supply can lead to reduced engine power or in the worst case scenario, total loss of propulsion. Whichever method or fuel type you choose for complying with 2020 regulations, Auramarine's experts are committed to come up with the right solution to ensure your post-2020 fuel system health and operational safety. For HFO 3,5% with scrubbers, LSHFO, MDO 0,5%S, MGO 0,1%S or any other possible fuel option, we are at your service to find the safest and most efficient fuel supply solution for your ship or fleet.

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Take the first step by letting us evaluate your fuel system design and operational conditions. We will take a look at your specifications and drawings and work out a customised upgrade plan to ensure full compliance for 2020. Whether design and key components or a turnkey delivery, an upgrade will pay off in terms of safe and efficient operation. Why not find out what we can do for you?



Upgrades for fuel measurements and reporting, as per MEPC.278(70) - IMO data collection FuelSafe ™: Fuel cooling combined with automated changeover

2020 Readiness and Safety

Engineering and design modifications, ready for class approval

Filtration upgrades to even 10 mic, coping with Cat fines reduction in fuels Pumping system upgrades: For durability and safety during long-term operation on lowsulphur fuels

> Control optimisation of existing fuel heaters and coolers

Contact us at after.sales@auramarine.com or visit our website www. auramarine.com



Auramarine Ltd. sales@auramarine.com after.sales@auramarine.com +358 20 486 5030 www.auramarine.com



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