

MARINE FUEL WATCH

The newsletter for Innospec Fuel Specialties | June 2022

Octamar™ technology awarded ClassNK Innovation Endorsement for Products & Solutions

The performance of Innospec's Octamar™ range of combustion catalysts, which includes Octamar™ Ultra HF, Octamar™ Complete, and Octamar™ F35C, has been recognised by the leading ship classification society ClassNK.

The range has been awarded a prestigious Innovation Endorsement for Products & Solutions. In eight separate field trials, Octamar™ achieved an average fuel economy improvement of 2.7% and reduced Particulate Matter (PM) emissions by up to 60%. Innospec is the first fuel chemistry supplier to be awarded this endorsement.

The test results

In three tests using pure combustion catalysts there was an improvement in fuel economy of between 2.1 to 3.0%. In four tests, using combinations of our combustion catalysts with detergents/stabilisers, improvements in fuel economy of between 2.3 to 3.9% were recorded. The 'in lab' tests such as the FIA (Fixed Ignition Analysis) test were all verified by a third party.

The CO₂ challenge

Never has the shipping industry faced such challenges meeting CO₂ regulations. What is now clear, as verified by ClassNK, is that treating fuel with Octamar™ results in cleaner engines, better VLSFO and HSFO combustion and improved fuel economy. This results in a like-for-like improvement in CO₂ emissions. Both CII (Carbon Intensity Indicator) and ETS (Emission Trading Scheme) rely on fuel consumption data to calculate CO₂ emissions from shipping.

ClassNK experts examined: Octamar™ Ultra HF, Octamar™ Complete, Octamar™ F35C.

The endorsement certificate was issued after concluding that these products improve fuel economy, reduce piston fouling, improve cleanliness condition and efficiency of turbocharger and economiser, reduce unburned carbon deposits in exhaust system and positively impact VLSFO and HSFO combustion.

The report added: "For Octamar™ Ultra HF and Complete, the combination of combustion catalyst, combustion improver and stabiliser/dispersant create a threefold effect on combustion catalysis, ignition improvement, homogenisation and better atomisation/spray pattern, significantly reducing unburnt fuel in exhaust, soot, PAH, post combustion fouling, black smoke, black carbon."



OEMs back Octamar™

As part of the endorsement process Innospec obtained 'No Objection Letters' from engine makers to provide ClassNK with assurance that the composition, properties and treat rate of the Octamar™ range would be safe to use in the respective brand name engines.

Supporting innovation to improve fleet performance

Through its focus on innovation and new technologies, Innospec aims to improve operational efficiency and reduce fleet costs. Octamar™ products offer a drop-in performance improvement that can be applied with no capital investment. The benefits of a stable fuel with a better combustion profile and combustion efficiency have been proven to have a direct impact on fuel economy. Perhaps more importantly, creating effective fuel additives is helping to reduce the emissions of substances harmful to human health and the environment.