SMART FIN STABILIZER CONTROL PINFABB ECO ON BOARD M/V CARIBBEAN FANTASY

France Ferries, management of M/v Caribbean Fantasy, ship of Baja Ferries fleet, has recently chosen Pinfabb to replace and renew the existing Sperry Marine Fins Stabilizers control on board the aforesaid vessel, installing Pinfabb_ECO, the Smart Stablizers Control, in order to optimize the ship performance, save fuel and reduce the Co2 emissions.

For Nicolas Carion, France Ferries Technical Manager:

"We needed servicing our SPERRY GYROFINS stabilizers to replace existing anti-roll motion system, with old and not liable electronic components. The aim was to secure proper conditions of the fins system and to be able to present and share a most advanced system able also to save fuel thanks to a more optimized algorythm.

Our conditions were to perform this job in a short time and to provide datas to the officers on watch in order to be able to optimize the use of the stabilizers as much as possible and not to consider fins should be in use, for passengers comfort, from beginning to end of sea passage.

Job was performed in a very short time, with CMR Tunisia shipyard support. All studies have been made in advance and the installation of PINFABB_ECO system was done in less than 1 week, including test, with a « plug and play » process.

Till now, system is working properly and we found a simple way to adjust fins use and save fuel oil while maintening a good comfort to our passengers.

This upgrade figures as part of our SEEMP (ship energy efficiency management plan) as per SOLAS requirments.

Our old lady has now recover efficient wings."

The installation of the avant-garde Pinfabb_ECO control, that has been made during a Dry Dock in Menzel Burguiba – Tunisi (but can be performed on board every type of vessel also during ship operation) has allowed to the ship and the crew to obtain several benefits, like an improvement of efficiency and the fuel saving :

It has been performed the renewal and a perfect retro-fit of the stabilizers plant, avoiding any expensive spare parts for obsolete parts. Besides simplifying crew operations, the revolutionary system has reduced up to 60% stabilizers drag and consumption and consequently Co2 emissions while sailing and during the use of fin, it has also been added to the SEEMP: these are solid reasons for which a ship superintendent should contemplate the choice of Pinfabb_ECO.

Moreover to the electronic control upgrade, France Ferries has requested also a hydraulic and mechanical overhauling of the stabilizers plant, which has been completely managed by Pinfabb Technical Team, The result of the project is an efficient modernization of the entire system with considerably lower expense, compared to the high one proposed by the manufacturers, and of course the customer's satisfaction that makes us feeling very proud.

RENOVATION ON BOARD

Pinfabb Eco panel in wheelhouse installed in the place of the old one, using the existing mechanical frame. Our touch screen panel can be easily used thanks to its intuitive graphics simplifying the operators labor.

Pinfabb Eco main Panel in Engine control room is made by military and marine standard components, chief among them an advanced and very reliable electro-hydraulic motion controller.

Our components can totally replace new or obsolete stabilizing controls or can be matched with the existing ones to be used as fuel saving tool and to improve the ship stabilizing performance, with a special focus on the optimal stabilization, that is achieved through sophisticated calculations and taking advantages of the factors that influence the stability, such as winds, currents, cargo conditions and weather conditions, or the propulsion power and the ship drift. Pinfabb Eco is able to suggest to the operator how to act and which fin (or both fins) have to be extended in order to obtain the best stabilization and accordingly an appreciable fuel reduction.

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