**SIGMA SAILADVANCE™ DX**

Innovative antifouling improves efficiency and reduces operational costs

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The Customer

Chandris (Hellas) Inc., established in 1915, is a ship management company based in Piraeus, and specializes in the management and operation of tankers and bulk carriers. In 2011, the fleet’s deadweight capacity was close to 4 million DWT tons with the average age of vessels at under 4 years’ old.

The Challenge

The VLCC oil tanker Ellinis, built in 2007, trades worldwide and has demanding operational schedules; therefore, the most efficient antifouling was needed to ensure optimal hull condition and improve the vessel’s efficiency.

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*Formerly known as SIGMA SYLADVANCE™ 800*
The Solution

The high-performance silyl acrylate SIGMA SAILADVANCE DX antifouling was chosen in May 2012 for application at the COSCO Dalian shipyard in China.

In addition to keeping the ship’s hull free from fouling, the product’s silyl-acrylate polymer technology also contributes positively to the hydrodynamics of the ship’s hull by reducing hull frictional drag and, crucially, the amount of fuel consumed.

The Benefits

As a result of the self-smoothing effect of the antifouling, the average hull roughness was reduced and a positive contribution in fuel consumption was immediately realized.

The antifouling is built on the state-of-the-art silyl-acrylate polymer and addresses both ecological and economical drivers in the shipping industry by contributing to fuel savings. The predictable product performance also allows for a tailor-made solution to each vessel’s profile and sailing pattern.

Main Benefits:

- Fuel savings > 3%
- Lowers greenhouse gas (GHG) emissions
- Reliable protection, predictable performance
- Short overcoating intervals and refloating times
- Suitable for new-building and dry docking
- Excellent aesthetics and color retention
- Improves application productivity – reduces dry-docking and downtime
- One product meets the requirements of a broad range of vessels
- Proven performance also at lower speeds
- Highest solids content of all premium antifoulings

The Results

The SIGMA SAILADVANCE DX antifouling delivers constant and linear polishing behavior, thereby ensuring the most effective antifouling performance. These features significantly improved the excellent fouling protection for the M/T Ellinis and also optimized the tanker’s operational efficiency.