

UNDERWATER PROPELLER POLISHING & CLEANING

The underwater propeller polishing (multi-stage micro polishing of all surfaces) and the maintenance of the smooth surfaces, is vital in order to save energy and optimize the performance of the ship (improvement of vessel's performance). The rough propeller leads to power loss, which can be up to 6% as well as an increase of fuel consumption.

BEVALDIA (Manager of the branches PSOMAKARA & GAMSRO) provides high quality underwater cleaning and underwater propeller polishing (uw propeller polishing), achieving immediate and effective reduction of fuel consumption and reduces the total cost of the ship. Propellers convert mechanical energy to the propeller shaft to thrust energy in the water.



The propeller blades function as a spoiler. The development of thrust that they generate is a result of flow around the blade. As the propeller turns the blades generate a pressure difference in the water, pushing the ship forward or backwards, depending on the way that the propeller turns, as well as the pitch of the blades. There are fixed pitch propellers and variable pitch propellers.

An important problem in shipping is the increase of roughness to the ships propeller, as the fuel consumption and the emission of gaseous pollutants in the environment is increased and significant losses are caused to the propulsion system.

GREECE Piraeus, Chios Thessaloniki Kavala Alexandrou- poli Neapoli- Vatika, Kali Limenes Corfu Kalamata Patra, Laurio Ag. Theodori Elefsina Chalkida Rhodes Drepano Korinthos	TOGO Lome	TURKEY Istanbul Canakkale Iskenderun	CYPRUS Limassol Larnaca	ALBANIA Detar Sarande	BENIN Cotonou	CHINA Rizhao Shanghai Hong Kong Qingdao Lianyungang	CONGO Pointe Noire	DJIBOUTI Djibouti	EGYPT El Dekheila Suez	SINGAPORE Aepa	SRI LANKA Colombo
FRANCE Marseille	GHANA Tema	GUINEA Conakry Kamsar	INDONESIA Balikpapan	IV. COAST Abidjan	KOREA Yeosu	MEXICO Lazaro Cardenas Manzanillo Punta Manzanillo Tuxpan	PANAMA Balboa	SPAIN Palma de Mallorca	SENEGAL Dakar	TUNISIA Tunis Sfax	

ADVANTAGES OF UNDERWATER PROPELLER POLISHING

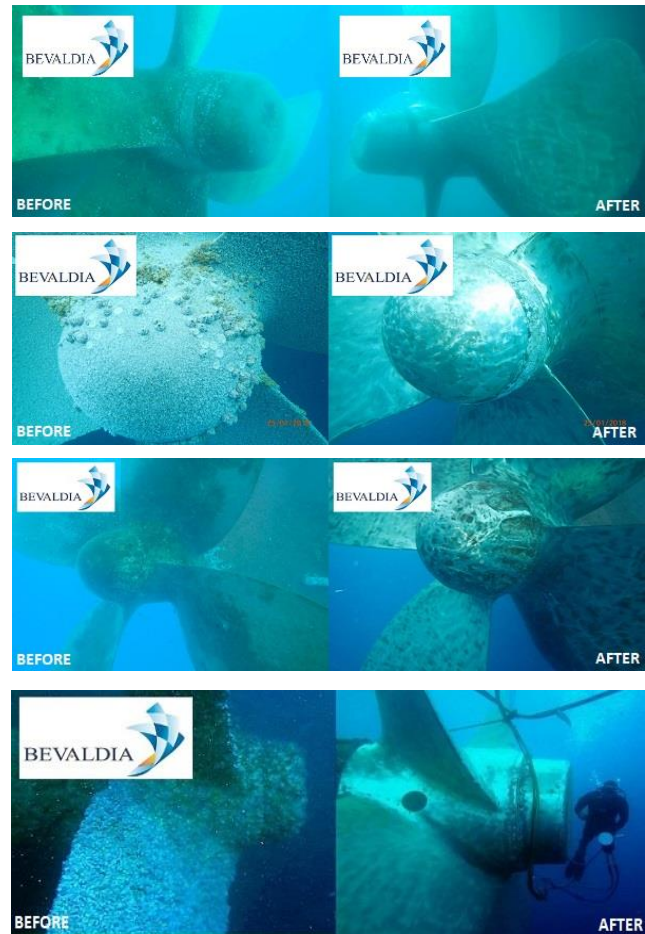


With continuous cleaning of the hull, rudder and underwater propeller polishing (uw propeller polishing), the potential savings per case can exceed 6%! The time period, which the propeller takes to cover with marine growth, and then to proceed for

underwater propeller polishing (uw propeller polishing), varies depending on the propellers' source material, the nature of the roughness, as well, and the corrosion of the metal from which the propeller is made.

PROPELLER POLISHING RESULTS

The underwater propeller polishing (uw propeller polishing) is now part of the regular ship maintenance. The underwater services company BEVALDIA (Manager of the branches PSOMAKARA & GAMSRO) performs underwater propeller polishing (uw propeller polishing) with diamond disc pads, achieving excellent results [Rubert "A" scale (1.00 Micron Ra)].



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