

Cruise Ship Bunker Oil Treated Effectively and Economically by ECO Demulsifiers

Problem

An oil reclamation company in Canada receives contaminated bunker oil from the maritime industry. The high gravity of the oil, the high levels of water and fine solids and the varying types of contamination makes consistent recovery of saleable oil an operational and economic challenge.

Solution

Numerous tests were carried out by the customer and at ECI laboratory, evaluating oils from various ship lines, over a wide range of temperature and ECO dosage. ECO* 33NG, and to a lesser extent ECO* 35, treated every type of oil and produced the required oil quality.

Results

The customer treats ~15,000 gallon batches (typically analyzing at 5% solids and 50% water) at 70-85°C (165-185°F), using 1500-3000 ppm of ECO 33NG metered into preheated oil during transfer into a heated receiving tank. After 1-2 days, the separated water/solids layer is removed, and the oil is transferred to a sales tank. After settling for one day the oil meets the 3% maximum BS&W.

The water phase is relatively easy to treat, and the interface layer rarely exceeds 10% of the total volume.

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