



EVAC Filter Saves Chevron Ship Oil/Water Separator Maintenance

The Gemini Voyager is a tanker ship operating worldwide under the **International Convention for the Prevention of Pollution of the Sea by Oil**. Under these regulations a ship automatically is prevented from discharging bilge water that registers 15 PMM oil or more. When this occurs the crew is required to perform onerous maintenance to get the ship back in compliance.

The EVAC Filter made by C.I. Agent Solutions was retrofitted into the piping of the Chevron Gemini Voyager in December of 2008. The Gemini Voyager's Oil/Water Separator includes a sensor that detects the presence of hydrocarbons at the discharge point for direct ocean discharge. If the sensor shows more than 15 ppm, then the discharge is shut off and the separator that processes all of the bilge water cannot discharge without maintenance. It was suspected that soot or particles other than free flowing oil was the issue that continually blinded the Oil/Water Separator sensor.

The EVAC Filter was installed per the photos below. The EVAC Filter not only captures hydrocarbons, but also is designed to capture solids down to 1 micron, including the soot that was suspected of causing the problem. The EVAC comes with a quick connect fitting that is adaptable.

After 1 year of evaluation, the Chief Engineer of the Chevron Gemini Voyager, Verma Gajendra, ordered more EVAC Filters and made the following statement:

“About performance of these filter, is excellent, as such there is not much oil from these drains but lot of soot, rust particles which is separated by these filters very efficiently, trapping these impurities in early stage save us a lot time in cleaning bilge wells and bilge holding tank in long run.”

