

**Industry:** Marine – Offshore  
**End User:** Global Marine Operations, U.A.E.  
**Application:** Mechanical Face Seal, Propeller Shaft Bearings  
**Thordon Grade:** TG100, SXL  
**Date of Initial Installation:** 2016

### About:

Global Marine Operation owns and currently operates a diversified and growing fleet of 7 Offshore Support Vessels. The fleet comprises of Anchor Handling Tugs (AHT), Anchor Handling Tug Supply (AHTS), Supply Vessels and Crew Boats.

### Challenge:

A Global Marine Operations crew boat was using gland packing for their tailshaft seal which not only requires regular maintenance but was also causing wear to the tailshaft in the packing area. To make problems worse, there are not many shipyards in the Middle East that offer the full facilities for replacing stern gear and bearings so a low-maintenance solution was required.

### Solution:

The shipowner installed TG100 tailshaft seals in 2016 because they are a maintenance free solution that required no replacement parts during every dry dock. They worked with the shipbuilder to modify the design to ensure that there was sufficient space for the seals, in both horizontal and vertical directions, and that a flow meter was installed to monitor the flow of the water lubricating the bearings and seals to ensure smooth operation.

### Results:

After an inspection in 2019, Thordon's TG100 seals were found to be operating in perfect condition after over three years of service on the *Global Tiger*, an aluminum crewboat operating in the Middle East. The seals have required no maintenance and the bearings show no sign of wear.

The customer is planning to specify TG100 on their upcoming newbuilds based on this success.

