

## IN-SITU TAIL SHAFT MACHINING EXPENSIVE SHAFT REMOVAL AVOIDED WITH IN-SITU MACHINING

Goltens was engaged to undertake the In-Situ inspection of the port and starboard tail shafts on a large military transport vessel while in dry dock. Inspection of the port and starboard tail shafts revealed that the Simplex shaft seal had worn deep grooves in the shaft liners.

The owner was faced with huge costs of removing the propellers and shaft and transporting the shafts to a workshop to have the shaft machined not to mention the time impacts on the yard period. Goltens proposed performing the repairs to both shafts in place to avoid these costs and extended downtime for the vessel.

Goltens immediately mobilized its journal machining tools and technician and began the job to restore the surface.

### REPAIRS CONSISTED OF:

- Machined and honed the port shaft 1.0mm to a final diameter of 849 over a length of 220mm
- Machined and honed the starboard shaft 4.0mm to a final diameter of 846mm over a length of 190mm

### RESULTS:

Goltens completed the repairs within maker tolerances for standard sized seals and enabled the customer to avoid the extensive costs associated with removal and transport of the shaft to a workshop.

Work was completed on both shafts in roughly 10 days of onsite work.

### PROJECT FACTS: Damaged Tail Shaft

Original Shaft Diameter:	850.00 mm
Finished Shaft Diameter Port:	849 mm
Finished Shaft Diameter Stbd:	846 mm
Length Machined Port:	220 mm
Length Machined Stbd:	190 mm

