



ENVIRONMENTAL TECHNOLOGY

## Mean time between failure doubles

HMS Ocean was a naval helicopter carrier and fleet flagship before being decommissioned in 2018. It was then recommissioned by Brazil and remains in service to this day.

### The problem

The customer was experiencing problems with the main lubrication oil pump which was performing the critical duty of supplying lubricating oil to the carrier's main engines.

The original single component seals were failing prematurely and mean time between failure (MTBF) was less than six months. The failures were causing leakage of the lubrication oil, which caused significant mess and was costly to dispose of.

AESSEAL® was asked by the customer's pump engineers to board the vessel and seek a value adding solution.

### The solution

The vessel's staff disassembled the top of the pump so measurements could be taken.

AESSEAL® engineers established that a 65mm SCUSI™ short cartridge mechanical seal, with a simple adapter ring could directly fit the pump, removing the need for pump modification.

This cartridge seal upgrade guaranteed accurate installation and prevented any risk of damage being caused to the seal faces during fitment.

Following the upgrade to the AESSEAL® SCUSI™ seal, MTBF on the lubrication oil pump seals more than doubled, from six months to more than a year.

## Mean Time Between Failure more than doubled

Industry:	Marine Industry
Product:	SCUSI™
Application:	Lubrication oil pump
MTBF Increase:	>100%
Reference N.O:	CS0198



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