



# FLUOROCARBON CASE STUDY

## FL340 - T BEARINGS

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### THE CHALLENGE

The Client had concerns about possible damage caused by friction wear on pipe lines insulated coating, high voltage power cables and high temperature pipe lines situated on the sea bed when they have to cross over existing pipes and power cables.

Concrete structures had been designed to be situated at cross over points to carry the pipes and cables which were continually expanding and contracting as well as being affected by sideways movement caused by undersea currents.

### THE SOLUTION

Fluorocarbon recommended FL340, a tough material with low friction which would not lose any properties in a marine environment.

The bearings, which were machined to fit on the top of the concrete or steel structures, are held in place by mechanical fixings with a 40 year life span, eliminating the need for maintenance or replacement in this period.

### THE OUTCOME

The bearings prevented friction and wear on the applications which would have previously caused damage where they have to cross over existing pipes and power cables.