

## Technowrap™ Long-term repair to a buried oil supply line.

### Overview

The client contacted ICR.IAS JV about significant internal corrosion defects on the underground oil supply line. The repair strategy and landing were also designed to include a previous non-Technowrap™ composite repair.

ICR.IAS JV applied a 14-layer Technowrap™ 2k Glass Fibre repair to numerous defect locations.

### Scope

The line had the following specifications:

Structure	Oil Supply 8" Line
Surface Preparation	Sa 2.5
Class Approval	N/A
Substrate Material	Carbon Steel
Design Pressure	60 bar
Design Temperature	60°C
Application Temperature	30°C – 40°C
Design Life	10 years
Wrap / Repair Length	3.8 meters
Geometry	Wrap over previous repair
Corrosion Type	Internal
Defect Details	Modelled as max 15 x 15mm hole



Application of the Technowrap™ Repair

### Solution

- Technowrap™ 2k Glass Fibre with HA Resin system was chosen due to the design temperatures and location requirements.
- Wrapping over the existing non-Technowrap™ repair was necessary due to the location of the defects.
- Challenging working environment with ambient temperatures exceeding 40°C causing shorter working times with resin. This was mitigated with improved work setup to suit faster application.

### Benefits

- Repairs completed online with no line shutdown necessary.
- Higher temperatures assisted with curing.
- Custom work area set up enabled Technicians to efficiently perform application.



Previous composite repair - internal corrosion defects identified at either end of the repair.



Completed Technowrap™ Repair