

SYLWRAP Case Study

Libya 200mm 44 Bar Fuel Oil Pipeline Repair

A leaking underground fuel oil pipeline in Brega is sealed in a repair built to withstand pressure fluctuations up to 44 bar and temperatures of 70°C



The pipeline was badly pitted and covered in oil

Defect

Excavation of the leaking oil line revealed it to be in terrible condition. It was badly pitted and covered in oil, which had escaped from a small crack caused by heavy corrosion.

For any repair to be successful, it had to be capable of withstanding pressure fluctuations up to 44 bar and temperatures of 70°C.

Solution

The pipe was cleaned as best it could be. Oil and dirt were removed to enable a good connection between the surface and **Wrap & Seal Pipe Burst Tape**.

Six 50mm x 4m Wrap & Seal were applied over the crack. The tapes amalgamated to form a solid rubber mass, strong enough to contain pipe content even in the event of 44 bar pressure being reached.



Oil was escaping from a small crack left by corrosion

The repair was then overwrapped with **SylWrap HD Pipe Repair Bandage**. Four bandages were used to create a thick, rock-hard, impact resistant sleeve reinforcing the pipe by increasing outer wall thickness.

With Wrap & Seal effective to 200°C and SylWrap HD offering a maximum service temperature of 200°C, the completed repair met both the temperature and pressure requirements.



Multiple Wrap & Seal tapes fused into a solid rubber mass, containing the oil leak

Result

It took under two hours to complete the application once the pipe had been excavated, inspected and undergone surface preparation.

Having been so impressed with the ease and speed of repair made possible by the SylWrap range, the team who carried out the application have since used more Sylmasta products for sealing other oil lines.



The repair was reinforced with SylWrap HD