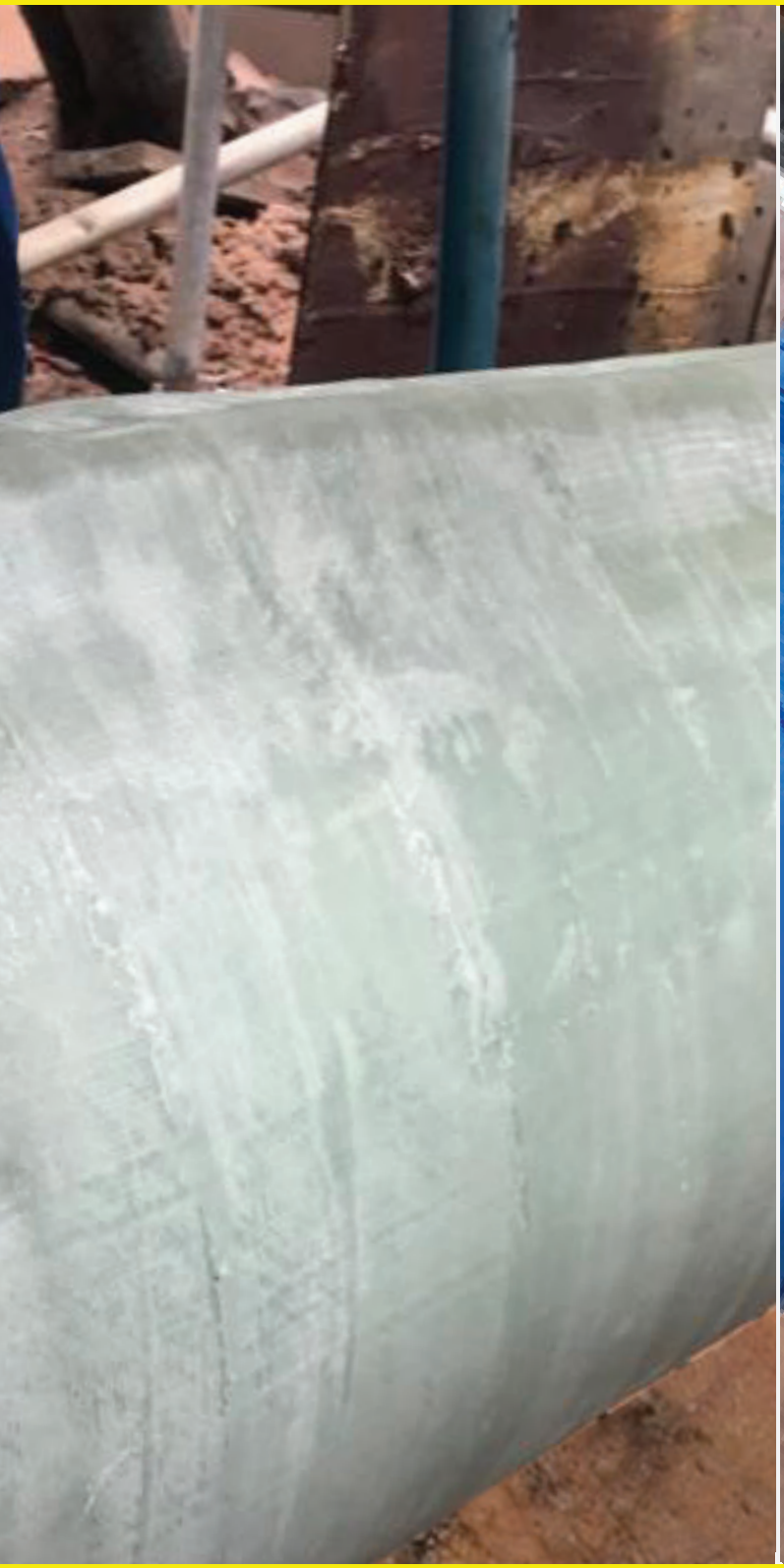
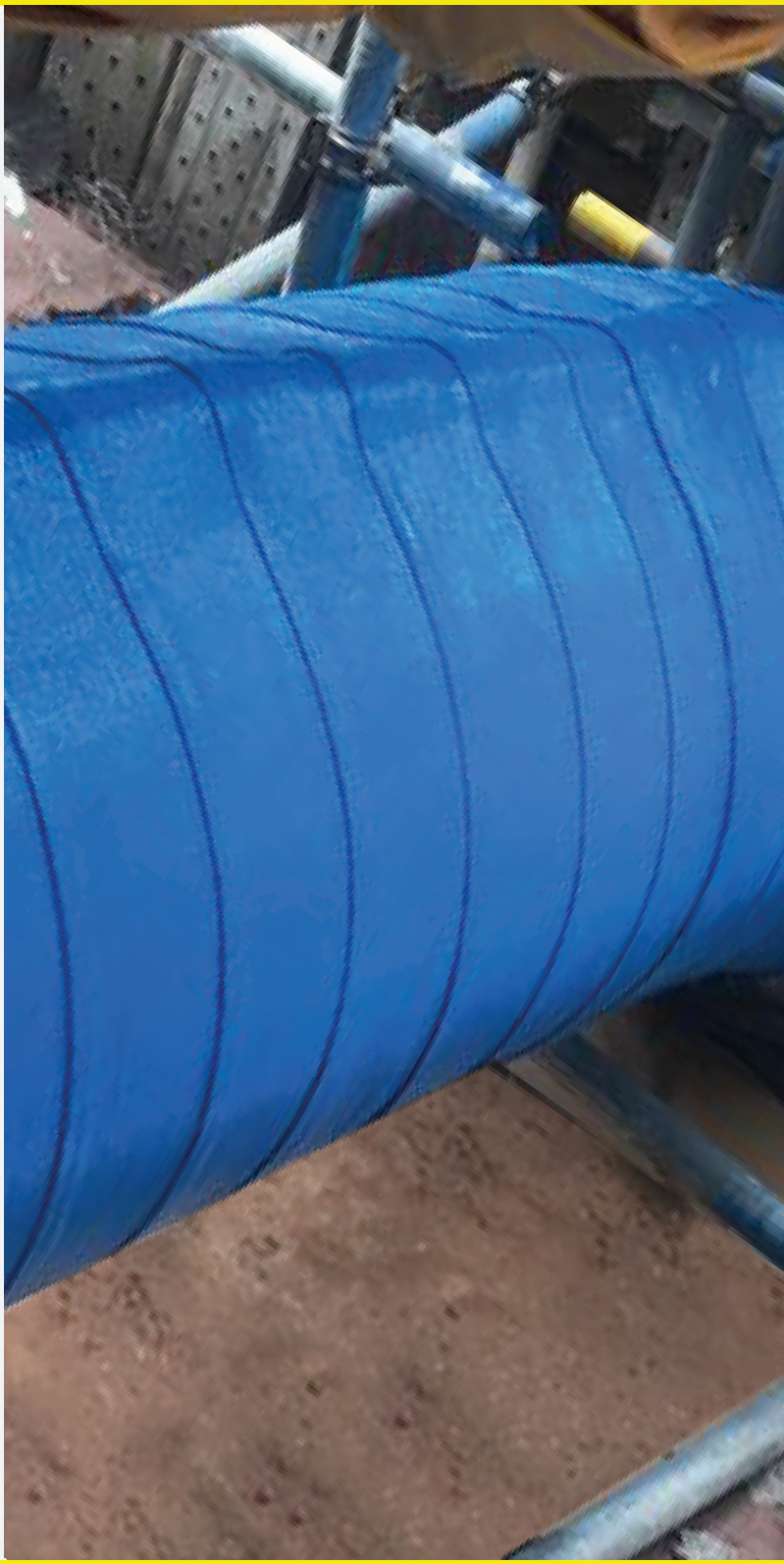
SKPS
Sap & Kaps Petroleum Services l.l.c

Case Study
20” Heavy Oil Fuel Line Repair





20” Heavy Oil Fuel Line Repair

1 Surface Preparation

20” heavy fuel oil line found severe external wall loss due to coating/insulation damage. Heat tracing cable was exposed due to corrosion leading to fluctuations while operation. Pipe surface preparation achieved to SA2.5 by sand blasting.

2 Titanium putty Application

External corrosions were filled using Steel/Titanium putty. Also used Steel / Titanium putty & Quad fiber glass to create smooth shape between heat tracing cable and pipe substrate before doing composite repair. This is to avoid any kind of air gaps prior composite repair.

3 Clock Spring® contour composite repair

Applied Clock Spring® contour composite repair for 2.0 meters with a repair thickness of 16.0mm as per ISO 24817 design calculations.

4 Apply Peel Ply

Once final fabric wrap has been applied, apply peel ply finishing wrap starting on the pipe beyond the edge of the fabric in a spiral wrap to cover all wrapped area extending a minimum of 3 Inches after the other edge of the fabric.

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5 Viscotaq® Viscowrap Application

Applied Viscotaq® Viscowrap (viscous elastic layer) over the composite repair and overlap on the bare metal exposed on both edges of repair.

6 Viscotaq® PU composite wrap

Applied Viscotaq® PU composite wrap over viscous elastic layer as a mechanical protection layer.

7 Design Criteria

Operating Pressure	:	10 bar
Operating Temperature	:	120 °C
Defect type	:	External corrosion
Size	:	20”
Material	:	Carbon Steel