

Case Study
Clamped 16" SDV Sealed with
Clock Spring® Contour
Composite Wrapping



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1 Defect area

16" Shut Down Valve suffering a through wall defect was sealed with a leak sealing clamp. Clamped area failed and required an immediate solution to avoid oil from seeping through.

A composite repair was engineered to cover all °360 of the clamp to encapsulate the SDV.



2 Leak Sealing

Leak sealing paste injected into clamp to reduce/ stop seepage to allow the repair to be executed.

Surface prepared to SA 2½ (S clamp and valve).

Leak Stop putty applied on interface area between the clamp and valve body.



3 Clock Spring® Contour Application

Clock Spring® Contour composite applied to encapsulate the full configuration of the clamp and valve body.



4 Design Criteria

Operating Temperature	: 130 °F
Operating Pressure	: 240PSI
Defect Type	: Leaks
Size	: 16 inch
Material	: Cast Steel Clamp A - 106
Defect Analysis	: Seepage from the interface between clamp & valve body
Lifetime	: 5Years