

SPIN® Protection Remedial DHSV Cycling Significantly Reduced

THE PROBLEM

The area above the flowtube in a sub-surface safety valve (DHSV) tends to scale up easily, preventing the valve from closing. This is due to the geometry of this area, and the fact that the sliding motion of the flow tube is sensitive to scale. This will cause production loss due to frequent remedial cycling for cleaning of this surface. In the worst-case scenario, intervention is needed to mechanically clean this area.

A pilot of the SPIN® was run in a well in Norway where the flow tube was cycled once per week to secure the functionality of the valve. Such frequent valve cycling cause production loss and uncertainty about DHSV functionality.

THE SOLUTION

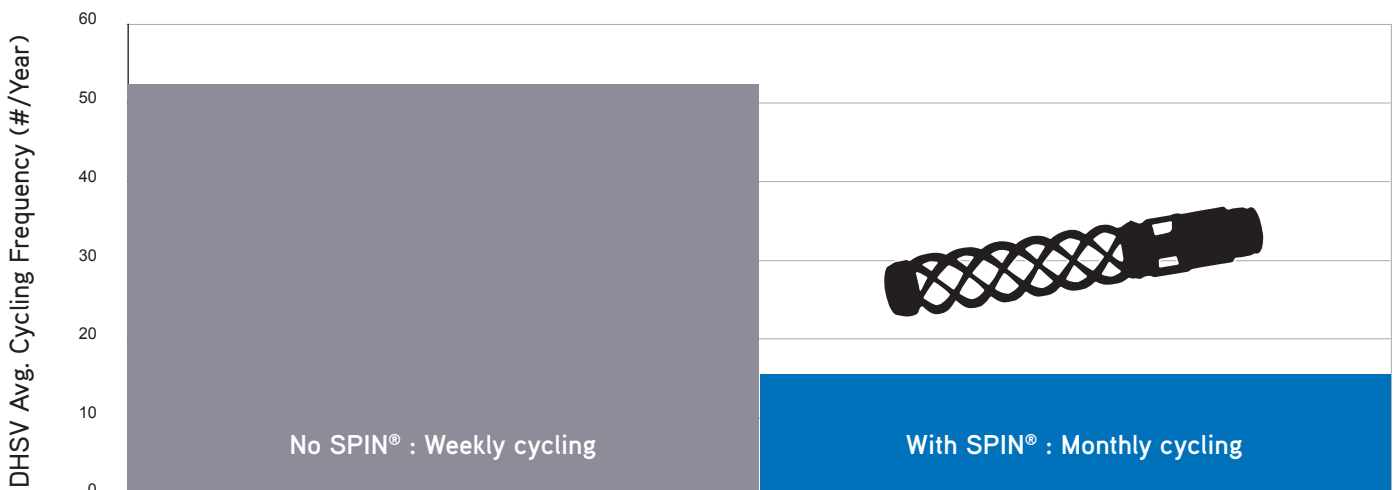
SPIN® Protection changes the flow pattern in such a way that scale is prevented from adhering to the surface above the flowtube.

THE RESULT

The operator decided to run SPIN® Protection. The tool was installed using a standard lock in an existing insert profile. After one year of installation, the cycling intervals have changed from every week to every month, which has resulted in increased production, less work for offshore personnel and a more reliable DHSV.



Effect of SPIN® from First Installation



LOCATION
NORTH SEA, NORWAY

WELL TYPE
OFFSHORE OIL

WELL COMPLETION SIZE
7"

SCALE PROTECTION SERVICE
SPIN® PROTECTION