

Reduced pump failure delivered over \$11,000 cost saving in first year of operation

A leading product manufacturer for the Chemical industry had seven seal failures in a year on their bottoms circulation pump.

The original seal was installed on a bottoms circulation pump, pumping Cyclohexanedimethanol (CHDM), and was experiencing excessive premature failures. The failures were due to solidified process fluid clogging the seal bellows and coking of the process fluid on the atmospheric side of the seal. The pump had seven seal failures in a twelve-month period, the cost of these failures was \$12,437 (excluding labour costs and loss of production).

AESSEAL[®] recommended using API plan 62 with steam quench along with the original seal. The steam quench is attached to the atmospheric side of the seal and acts as a barrier between the atmospheric side and the process fluid. This configuration helps in reducing the solidification of the process fluid and coking. The cost to implement the new piping plan was \$565 and the total saving in the first year of operation was \$11,872.



"\$565 outlay saves \$11,872 in year 1"

Industry:
Product:
Application:
Payback Period:
Savings:
Reference N.O:

Chemical BSFG & API Plan 62 Steam Quench Bottoms circulation pump <3 Weeks \$11,872 in year 1 CH00329



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