CASE STUDY

Pipeline Company Extends Sealing Component Life With TruTech™ Material

SCENARIO

A major US pipeline transmission and storage company in the Great Lakes region was struggling with decreasing service life for rings, riders and packing due to debris from a plugged inlet scrubber, lubrication issues from neglected pumps, liquids from a wet inlet and worn cylinders. The pipeline company had been using carbon-filled PTFE products from another supplier, with ring life worsening by the day.

The customer contacted Cook Compression® for a solution.

SOLUTION

After evaluating the application, Cook recommended TruTech materials, a family of unique polymer alloys specially developed by Cook Compression for sealing component use. TruTech materials offer advantages that would help offset the debris and entrained moisture problems.

The pipeline company installed components made from TruTech material in two cylinders. They also repaired their faulty lubrication systems after a Cook on-site visit identified the systems as a contributing factor to wear issues.

RESULTS

After only four months in service, the results were clear enough for the customer to declare TruTech materials a success for extending the life and efficiency of their compressors. The customer now insists on TruTech for all replacement orders of rings, riders and packing.

TruTech material has been used to solve problems at sister stations and has achieved outstanding results. TruTech components now have over three years of success in pumping the same debris-filled and occasionally liquid-laden gas.

These locations also replaced worn piston rods with new Cook Compression premium rods. Prior to converting to Cook Compression packing, ring and rider life was limited to only weeks, creating a huge burden on the repair crews. Now repair cycles are measured in years.

The customer's non-lube Gardner Denver two-stage air compressors were also switched to TruTech material. The service life of wear components increased from six months to more than two years. Valve maintenance has been reduced substantially – even with the same OEM valves – because reduced debris from worn rings and riders decreases the amount of material passing through the valves and causing sticking and leaks.

COOK® COMPRESSION

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DOVER® PRECISION COMPONENTS