

Innovative Solutions for Reliable Reciprocating Compressor Application

APPLICATION

Gas: Natural Gas
Suction Pressure: ATMOSPHERIC PRESSURE
Discharge Pressure: 300barg / 4.350psig
Stroke: 100mm / 3.937"
Speed: 1,500 rpm

FAILURE MODE

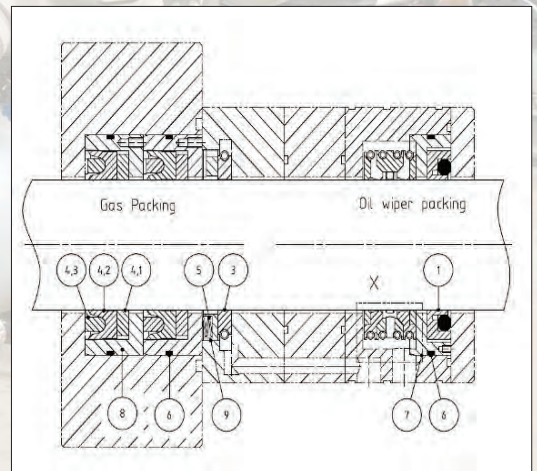
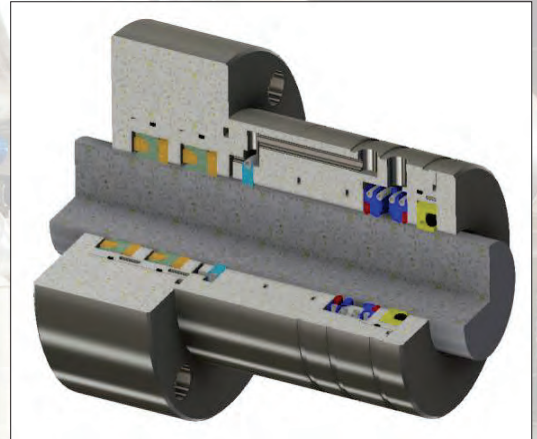
The oil leakage of the original oil wiper packing was about 13-15 l / 100 hrs. The lifetime of the piston rod packing and the oil wiper packing was less than 4,000 hrs.

ROOT CAUSE

Elastomeric standard sealing rings for hydraulic applications were used in this packing. Some of the rings had to wiper off the oil coming from the crankcase and some were used as gas sealing rings. The sealing efficiency dropped immediately when the rings were worn out.

SOLUTION

The BOSS (Balanced Oil Sealing Solution) – an innovative Stasskol oil scraper design having excellent sealing efficiency, is now used to prevent the oil from coming into the packing. The gas sealing rings are now designed as sealing lips made of PTFE compound. The sealing lips are able to compensate local wear in the contact area.



FIELD CASE

Piston Rod Packing

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