



Technical Improvement of Hyper Compressor in LDPE Plant

by:

Janjic Bojan, control department in LDPE plant, HIP-Petrohemija, Pancevo, Serbia and Montenegro, janjicb@verat.net

Stojakov Dragan, maintenance department in LDPE plant, HIP-Petrohemija, Pancevo, Serbia and Montenegro

**4th Conference of the EFRC
June 9th / 10th, 2005, Antwerp**

Abstract:

Reciprocating compressors play very important role in the petrochemical industry. Unfortunately, compressors are one of the most frequent reasons for plant shutdowns. Having said that, it is of the utmost importance to keep them constantly operating. Simultaneously with correct maintenance practice, the best way to achieve high performances is upgrading compressors.

This report informs about upgrading hyper compressor (4 HHE-2, Ingersoll-Rand, 1974) in LDPE plant that has been accomplished by home know-how powered by market leader in compression technology from Austria. The focus was to increase running period (up to 20000 hours) between replacing cylinders through the use of redesigned sealing rings. Report also presents tremendous decrease (savings of 200000 € per year) of cooling oil consumption, using up-to-date sealing rings design. In it we will refer to the problem solution of not sliding of the greased metallic plate across the anchor plate, too.