



Title: Performance Monitoring on Reciprocating Compressors, A rational extend on Condition Monitoring

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Performance Monitoring can be defined as the online calculation of the compressor performance based on actual process data, and the comparison of the compressor performance with the actual process performance. The compressor is regarded as a "Black Box". Condition Monitoring only supplies information on the condition of the machine irrespective of the changes in the process.

In the light of the total maintenance and total care contracts the next step in machine condition monitoring should be Performance Monitoring.

Changing process parameters will change the flow, required power and temperatures of the compressor output. Performance Monitoring can prevent misinterpretation of the data coming from the Condition Monitoring System of the machine.

Expert systems such as the B&K Advisor, will built up a extensive data bases. These data bases will be used to give an advise on the decision for machine overhaul.

In the presentation an overview will be given of the options of the Performance monitoring system, the required input and the produced output.