

# CASE STUDY

MEHRER KOMPRESSOREN IM EINSATZ



## COMPRESSOR RECOMMISSIONING BY THE MEHRER SERVICE TEAM

The Mehrer service team also provides support in the recommissioning of existing compressors, which are retrofitted for new operating conditions.

If the compression process or the compressed gas is changed, it is a particular challenge to check the long-life Mehrer compressors with regard to the original specifications or to adapt them to the changed conditions.

### The Project

A gas engine operator in the Netherlands purchased a used Mehrer compressor type TEL 50 from 2008 for the compression of synthesis gas.

The compressor was originally designed for the compression of natural gas at the previous operator and was in operation for approx. 7 years. After a subsequent storage period of 3 years, this existing machine was to be converted for a new task. The customer was looking for comprehensive professional support and the necessary know-how from the Mehrer service team. This ensured a successful recommissioning of the compressor. Because the Mehrer service team is not only qualified to carry out regular maintenance but also to convert existing machines for their new tasks.

» *We would like to emphasize the exceptionally fast response time of the Mehrer service team as well as the comprehensive support during the recommissioning of our compressor. Mehrer also made it possible for us to extend the service spontaneously at our request, which enabled us to put our system into operation on time despite internal delays.* ‹‹

Aleksandar Keratsinov  
Project Manager by Bio Energy Netherlands

### Execution of the Recommissioning

The condition and running performance of the used compressor couldn't be determined by the new operator at the time of purchase. For the recommissioning, the operator contacted the Mehrer Customer Service. In consultation with the customer, a comprehensive maintenance of the plant was offered.

This offer included the replacement of typical spare parts such as working valves, piston rings, the filter and the piston rod packing gas and oil. A crankcase cleaning with fresh oil filling as well as a new set of drive belts with alignment and belt tension completed the maintenance.

On the basis of the operating data sheets from the Mehrer archive, all necessary spare parts could be provided promptly.

After the Mehrer service technician carried out the maintenance and leak test with helium, he was also able to provide support with the wiring and integration of the pressure and temperature sensors into the control system.

Immediately before commissioning, the customer informed about the current gas data. These data were different from the original design data of the compressor, which meant that the compressor couldn't go into operation. As the customer-specific gas conditions were available, it was possible to react quickly and make a recalculation. New maximum values for the inlet temperature and the final pressure had to be defined.

Thereafter, the test run with synthesis gas and operation of the complete process with downstream gas engine could be successfully supported.



The Mehrer service technician with full commitment.

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