

Burckhardt Compression Boosts Reliability for a Major Petrochemical Company

10 May 2023

Burckhardt Compression's expertise and know-how, along with its transparent assessment of the condition of compressors and auxiliaries, played a crucial role in the major turnaround of two LDPE compressors for petrochemical company. The successful completion of the project on time and within budget, along with the extended lifetime of the equipment, underscores the importance of Burckhardt Compression's dynamic project management and expertise in the petrochemical manufacturing industry.

A major petrochemical company has been meeting the demand for its products for nearly 60 years, specializing in polymers such as ethylene, polyethylene, polyvinyl chloride, and polypropylene. These polymers are essential components for many industries worldwide, as they are used in the production of a wide range of products, including packaging, construction materials, automotive components, and textiles.

To meet high market demand, the factory relies on robust plant and equipment for flawless production. Although the two low-density polyethylene (LDPE) compressors - a booster/primary and a hyper, critical to the production process required scheduled maintenance, they only needed minor repairs. Additionally, the auxiliary equipment was also part of the factory's major turnaround, which required special care to ensure optimum performance.

Burckhardt Compression's specialist team attended the site and worked with the customer's on-site engineering team to collect site data and provide insight into the condition of the compressor system for necessary repairs and major turnaround.

The customer faced several project challenges, including the need for OEM expertise to ensure the project was completed professionally and on time due to the compressed timeline for the overhaul. Additionally, there was a requirement for a single-source supplier to coordinate and execute all compressor-related work on the auxiliary equipment like motor and gas piping.

Burckhardt Compression provided comprehensive support and management for the customer's project. This included overhauling a lubrication unit, cleaning and flushing of the auxiliary and gas piping, as well as inspecting and overhauling the compressors to ensure they were fully operational. Burckhardt Compression also coordinated with the motor OEM to assess its condition and source the necessary spare parts.

To adhere to a strict timeline, Field Service representatives from Burckhardt Compression worked in shifts to carry out the required work including crank gear overhaul and con-rod bearing replacement. This was in addition to the other work managed by the on-site Field Service Coordinator, who acted as a single point of contact for project management and oversaw the entire project.

The major turnaround has resulted in an extended lifetime of the customer's plant equipment and ensured safe compressor operation until the next scheduled maintenance.

A contracts specialist for the customer concluded: "Our organization is extremely satisfied with the exceptional professional services provided by Burckhardt

Compression. The entire team provided an unwavering dedication to completing the project on time and within budget. The technical expertise of Burckhardt Compression is second to none, and we are grateful for the quality of work and successful completion of the project.”

Image captions:



Image 1: Overhauling the crank gear and realigning the crankcase.



Image 2: Replacement of bearings and overhaul of connecting rod.

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About Burckhardt Compression

Burckhardt Compression is the worldwide market leader for reciprocating compressor systems and the only manufacturer and service provider that covers a full range of reciprocating compressor technologies and services. Its customized compressor systems are used in the gas gathering and processing, gas transport and storage, refinery, chemical, petrochemical as well as in the industrial gas and hydrogen mobility and energy sectors. Burckhardt Compression's leading technology, broad portfolio of compressor components and the full range of services help customers around the world to find the optimized solution for their reciprocating compressor systems. Since 1844, its highly skilled workforce has crafted superior solutions and set the benchmark in the gas compression industry.

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For further information please visit www.burckhardtcompression.com

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