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Running smoothly: REWITEC[®] ensures green motor energy

Sometimes a small addition can make all the difference. This is certainly the case with the innovative technology of lubrication expert REWITEC[®]. Their nano and micro-particle-based lubricant additives positively and sustainably affect the service life, energy consumption, and safety of systems, machinery and gearboxes, and hence make a considerable contribution to protect the environment.

TEXT: MARILENA STRACKE | PHOTOS: REWITEC[®]

In the beginning, it all started with a firm conviction that environmental friendliness and economic efficiency can complement each other perfectly when dealing with systems, gearboxes and machinery. Founded in 2003, REWITEC[®] has set itself the task of promoting the longevity and energy efficiency of said devices. A small yet highly motivated team in Hesse's Lahnuau followed this notion with a great deal of pioneering spirit and started to research and develop innovative ideas.

The basis of it all was a stone, which had been accidentally discovered during oil drilling. The workers discovered that the oil drilling tools lasted much longer

at that particular location than on other sites. Unfortunately, it was not possible to use the original raw material in an industrial context, as the smallest parts were abrasive.

The pioneering REWITEC[®] successfully managed the scientifically substantiated synthetic manufacturing of it, which resulted in a patented product ready to be used industrially. With the synthetic production, REWITEC[®] developed a high-tech nano product with scientifically proven and certified functionality. It is the only company of this area that successfully managed the complex manufacturing process.

Today the medium-sized technology enterprise delivers innovations for engine and gear units, which protects from abrasion, extends the service life, reduces maintenance work and hence creates saving potentials. REWITEC[®] attaches great importance to high-quality production made in Germany. For this reason, the entire research, development and production takes place at its headquarters in Lahnuau.

REWITEC[®] distributes its synthetic and mineral additives world-wide. Initially the lubricant additives were only intended for use in the wind farm industry, but it quickly turned out to be of advantage for a large number of different sectors. Meanwhile, the Central Hessian company also delivers to customers in the marine industry, the automotive sector and many more.

High-quality standards

"We believe it is very important to test our products repeatedly," says CEO Stefan Bill. "Our product range reflects advanced sci-

ence with its resulting logic conclusions and clear advantages for the user." To develop the nano and micro-particle-based lubricant additives further, REWITEC® works closely with partners of the research sector such as the Competence Centre of Tribology in Mannheim and the Justus Liebig University in Giessen. The Federal Ministry for Economic Affairs and Energy (BMWi) also supports REWITEC®'s research.

Efficient and safe

The operating principle follows a clear logic: The additives are added to the aggregates and in this case function as a means of transportation. The silicon coating is taken to the strained metal surface. Through using the frictional energy, a chemical process is set in motion, which reduces roughness. The newly evolved protective layer has a lasting impact on longevity, energy consumption and the safety of installations, machinery and gearboxes.

Awarded for excellency

Due to REWITEC®'s commitment to innovative technologies and its reliable quality development, the company has been awarded a range of prestigious prizes. Amongst them is the Innovation prize of the German Economy 2007 and the HUSUM Wind Energy Award 2009. Last year, REWITEC® was a finalist for the Wind Energy Award 2016 in the category supplier of the year.

Optimised for the automotive sector

In order to continuously meet the growing demand of the multi-layered scope of applications in the future, REWITEC® has developed its new sector REWITEC-AUTOMOTIVE, which is further testimony to the company's on-going optimisation and advanced development. Because as much as innovation, sustainability and quality are at the heart of REWITEC®, the company's team is also focusing on optimal use.

REWITEC® delivers with its brand ST.ONE, a tailor-made solution for customers, especially for the current tasks in the automotive sector.

The various products turn engines and aggregates close to their original new con-

dition. This brings better longevity, less fuel consumption and a reduction of dangerous emissions. The company remains true to its principles and is picking up speed with their special field REWITEC-AUTOMOTIVE and the brand ST.ONE.

"Our products increase the lifespan of machinery, which cause fewer pollutants

as well as going easy on the environment and the natural resources. We are very glad to be able to contribute in this way," says Bill.

For further information, visit the following websites.

www.rewitec.com

www.rewitec-automotive.de



CEO Stefan Bill, sales assistant Johanna Fliegenschmidt, sales office North employee Heiko Standke and technical support Mario Bingel (from left to right).