



Mobil DTE 10 Excel 46 Helps Volkswagen AG Enhance Energy Efficiency on Plastic Injection Molding Machines

**Krauss Maffei Plastic Injection Molding Machines
Volkswagen AG
Wolfsburg, Germany**

Situation

Volkswagen AG manufactures plastic molded automotive parts, and operates 22 injection molding machine systems of various makes, including Krauss Maffei. The machines were lubricated with a standard mineral-based hydraulic oil, and company managers hoped to upgrade the units' performance potential. They approached ExxonMobil to determine an alternative lubricant solution capable of extending service life and alleviating the total energy demands placed on the system.

Recommendation

ExxonMobil recommended evaluating the energy efficiency potential of **Mobil DTE 10 Excel™ 46** hydraulic oil. Formulated with a shear stable, high viscosity index, **Mobil DTE 10 Excel 46** allows for maintaining maximum hydraulic efficiency and component protection in a range of operating temperatures. Furthermore, its excellent oxidation and thermal stability can help to extend oil and filter change intervals while helping to ensure system cleanliness.

Result

After transitioning to **Mobil DTE 10 Excel 46** hydraulic oil, Volkswagen AG maintenance personnel reported enhanced system efficiency, generating a 3.7% energy savings on average or approximately USD \$2,600 annually per machine. The reduction in energy demand corresponds to a reduction of approximately 9,000 kg of CO₂ per machine, further supporting Volkswagen AG's sustainability initiatives.

The evaluation performed by the Volkswagen AG maintenance team measured power consumption under matching production conditions during the reference and test periods. In addition, equipment operation of material used and material throughput per hour were identical. Convinced of the performance of **Mobil DTE 10 Excel 46** hydraulic oil, the company plans to convert the remaining plastic injection molding machines to help gain additional operational efficiency.

The product performance of **Mobil DTE 10 Excel 46**, alongside the application expertise provided by local ExxonMobil engineering support, is helping to improve customer productivity potential.

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This Proof of Performance is based on the experience of a single customer. Actual results can vary depending upon the type of equipment used and its maintenance, operating conditions and environment, and any prior lubricant used.



Mobil DTE 10 Excel 46 hydraulic oil helped this automotive parts manufacturer reduce energy demand on these plastic injection molding machines.

For more information on Mobil™ industrial lubricants and services, call your local company representative or visit mobilindustrial.com.