

# Mobil DTE 10 Excel 46 helps the customer reduce energy consumption of up to 3%\*



Energy lives here™

Injection moulding machines KM350/3000CX, KM350/2700C2 | Häfner & Krullmann GmbH | Leopoldshöhe, Germany

## Situation

In an injection moulding machine, different plastic materials are produced through inlet of plastic pellets. A hydraulic unit is responsible for moving the plungers of the cylinder and for activating the hydro motor. The leak oil stream should be constant during operation and a free movement of the plungers is necessary for a fast and homogeneous action. Large leak oil streams and stick slip can have a negative impact on the energy efficiency. The company approached ExxonMobil to help determine an alternative lubrication solution capable of reducing energy consumption while simultaneously providing outstanding equipment protection.

## Recommendation

Based on customer feedback ExxonMobil engineers proposed an energy efficiency study with the current hydraulic oil and **Mobil DTE 10 Excel™ 46** hydraulic oil. Formulated with selected base oils and a proprietary additive system, **Mobil DTE 10 Excel 46** is scientifically engineered to help provide exceptional

hydraulic system efficiency†, including potential energy efficiency benefits.

## Impact

Häfner & Krullmann's maintenance personnel reported the energy study results showed the injection moulding machines experienced up to 3% reduction of energy consumed when using **Mobil DTE 10 Excel 46** hydraulic oil, while operating at full capacity. In addition, the customer experienced reduction of filter usage due to excellent filterability and low differential pressure at the beginning.

## Benefit

**Mobil DTE 10 Excel 46** hydraulic oil helped Häfner & Krullmann improve the energy efficiency of its plastic injection molding machines by up to 3%, and improve production.

Up to **3%** of reduction in energy consumption

### Industrial Lubricants



Advancing Productivity™

### Safety

Reduction in planned maintenance and filter changes have helped reduce employee interaction with equipment and diminish associated injury risks.

### Environmental Care\*\*

Reduction in oil consumption and filter changes have helped decrease waste generated for disposal.

### Productivity

Customer experienced improved productivity due to improved energy efficiency, reduction of maintenance and filter change intervals.

† The energy efficiency of Mobil DTE 10 Excel relates solely to the fluid performance when compared to conventional Mobil-branded hydraulic fluids. The technology used allows up to 6% increase in hydraulic pump efficiency compared to Mobil DTE 20 series when tested in standard hydraulic applications under controlled conditions. The energy efficiency claim for this product is based on test results on the use of the fluid conducted in accordance with all applicable industry standards and protocols.

\* 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.

\*\* Visit mobilindustrial.com to learn how certain Mobil-branded lubricants may provide benefits to help reduce environmental impact. Actual benefits will depend upon product selected, operating conditions and applications.