

# Mobil DTE 10 Excel™ 46 hydraulic oil helps mining company improve dumper hydraulic system and save more than US \$800,000\*



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Dumper hydraulic system, BELAZ/ White Russia | TISCO Mining Co., Ltd. | Taiyuan, Shanxi province, P.R. China

### Situation

TISCO Mining Co., Ltd's Jianshan iron mine introduced 35 sets of BELAZ dumpers with hydraulic sumps of about 200 litres and carrying capacities of up to 130 tons. Using a conventional hydraulic oil, the dumpers experienced high operating temperatures averaging 100°C (212°F) during the summer, which caused unscheduled downtime to occur as a result of heating. In an effort to improve equipment productivity, the mine approached ExxonMobil to identify a lubricant solution that could help reduce operating temperatures.

### Recommendation

ExxonMobil engineers recommended TISCO Mining Co., Ltd switch to **Mobil DTE 10 Excel™ 46** hydraulic oil for the hydraulic system of the dumpers. Formulated with high viscosity index base oils and an additive system that provides excellent frictional properties, **Mobil DTE 10 Excel 46** also provides outstanding oxidation and thermal stability in severe service hydraulic systems.

### Impact

After transitioning to **Mobil DTE 10 Excel 46** hydraulic oil, the company reported that operating temperatures in the dumpers were reduced to 60°C (140°F).

### Benefit

TISCO Mining Co., Ltd reports that **Mobil DTE 10 Excel 46** hydraulic oil has helped reduce unscheduled downtime and increase mine output, generating company-estimated savings of US \$823,746.

Reduced unscheduled  
downtime by  
**1,575 hours**

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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.

\*\*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.

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