



# Mobil DTE 10 Excel 46 and Mobil Planned Engineering Services Help TISCO Mining Co., Ltd. Improve Dumper Hydraulic System and Save US \$823,746

**Dumper Hydraulic System, BELAZ/ White Russia  
Tisco Mining Co., Ltd  
Taiyuan, Shanxi Province, P.R. China**

## Situation

TISCO Mining Co., Ltd's Jiashan iron mine introduced 35 sets of BELAZ dumpers with hydraulic sumps of about 200 litres and carrying capacities of up to 130 tonnes. Using a generic brand of hydraulic oil, the dumpers ran into high temperatures that averaged 100°C (212°F) in the summers. This cost the mine significant downtime as work could not resume until the overheating problem was managed.

## Recommendation

An ExxonMobil Lubricant Engineer identified the source of the problem using **Mobil Planned Engineering Services** and recommended **Mobil DTE 10 Excel™ 46** for the hydraulic system of the dumpers.

## Result

After using **Mobil DTE 10 Excel 46**, the company reports that the dumpers have been operating smoothly. Their operating temperatures were lowered to an average of 60°C (140°F), avoiding 1,575 hours of unscheduled downtime. This amounted to company-estimated savings of US \$823,746 within half a year. In summary, the company has experienced the following benefits of using **Mobil DTE 10 Excel 46**:

- Reduction of unscheduled downtime caused by high operating temperature of the hydraulic system
- Prevention of the overheating reduced the costs of acquiring spare parts
- Increased productivity of the mine



## Advancing Productivity™

**Mobil DTE 10 Excel 46** has helped this mining company reduce unscheduled downtime and increase productivity, generating a company-estimated savings of US \$823,746.

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