

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.

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