

Extending hydraulic pump life with Mobil DTE 10 Excel 46

Premium hydraulic oil helps U.S. gold mine generate a potential savings of US \$1,149,300



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Terex O&K RH 340 Hydraulic Shovels | Gold Mine | California, United States

Situation

A California-based gold mine operates two Terex O&K RH 340 hydraulic shovels equipped with two pump drive gearboxes, each of which operates a set of 10 hydraulic oil pumps. Lubricated with a conventional hydraulic oil, the hydraulic pumps were experiencing frequent failures due to cavitation damage and the effects caused by seasonal temperature swings. After replacing 52 main hydraulic pumps, at a cost of US \$54,000 per pump, over a 40-month period, the company approached ExxonMobil engineers for a lubricant solution capable of mitigating equipment failure and minimizing associated costs.

Recommendation

ExxonMobil engineers recommended the company transition to **Mobil DTE 10 Excel™ 46** premium hydraulic oil. Formulated with selected base oils and a proprietary additive system, **Mobil DTE 10 Excel 46** is specifically designed to provide exceptional performance in a range of applications. The shear stable, high viscosity index allows for a wide operating temperature range, maintaining maximum hydraulic efficiency and component protection at both low and high temperatures.

Benefit

Mobil DTE 10 Excel 46 premium hydraulic oil has helped this California-based gold mine eliminate oil-related hydraulic pump failures, reduce fuel consumption and CO2 emissions to deliver a company-estimated potential total cost savings of US \$1,149,300.

Impact

Since converting to **Mobil DTE 10 Excel 46** premium hydraulic oil and following the recommendations of ExxonMobil engineers, the company reports that it has significantly reduced cavitation and experienced no oil-related hydraulic pump failures, helping to eliminate 160 hours of human-machine interaction.

Additionally, the company reports **Mobil DTE 10 Excel 46** has helped lower its environmental impact by decreasing diesel fuel consumption by 21,450 gallons and reducing CO2 emissions by 216 metric tons. Overall, these benefits have helped deliver a company-estimated potential total savings of US \$1,149,300.

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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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