



# Proof of Performance

September 2002

**TXI-Bridgeport  
Bridgeport, Texas  
Caterpillar 777 D Haul Truck  
with a Caterpillar 3508 Engine**



**Mobil Delvac 1300 Super and Mobil Monitor  
EM/PA Program increases overhaul intervals  
by 25% with a pro-rated savings of \$15,536.**

**Mobil<sup>®</sup>**

# Proof of Performance

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## Benefit.



Increasing the overhaul intervals by 25.59% increases equipment reliability.

## Situation.



To improve proactive maintenance programs and reduce maintenance costs.

## Recommendation.



Use **Mobil Delvac 1300 Super**, Mobil Monitor EM/PA (Engine Maintenance through Progressive Analysis) Program, and the Mobil Planned Engineering Service (PES) to complement TXI-Bridgeport's maintenance personnel.

## Result.



Due to high productivity and a shortage of maintenance personnel, the engine overhaul was delayed and monitored by oil analysis (Mobil Monitor EM/PA Program). The engine was overhauled by DARR Equipment Company with 20,095 hours instead of the recommended 16,000 hours. Due to TXI-Bridgeport maintenance practices, oil analysis, and the engine's condition, the service manager at DARR recommended 18,000 hours as an overhaul reference for TXI-Bridgeport.

### Cost Savings:

$$\begin{aligned} & \{(\text{Current Overhaul Life} - \text{Previous Overhaul Life}) / (\text{Previous Overhaul Life})\} \times (\text{Overhaul Cost}) \\ & = \{(20,095 \text{ Hours} - 16,000 \text{ Hours}) / (16,000 \text{ Hours})\} \times \$60,000 \\ & = \{4,095 \text{ Hours} / 16,000 \text{ Hours}\} \times (\$60,000) \\ & = 0.2559 \times \$60,000 \\ & = \mathbf{\$15,356.25} \end{aligned}$$

Off-highway

MFS\*  
012543142

OFHP0702

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