



Case Study

Solution for Abrasive Solids Pumping

Texaco, Port Arthur, Texas

The Challenge

Pumping diatomaceous earth

Two-phase fluid

Weekly shutdowns for repairs

Transferring filter cake slurry to the disposal containers was a major headache for this leading motor oil and gas additive processing plant in Texas. For over 10 years, the pumps used by this motor oil and gas additive processing plant in Texas would fail frequently. The slurry being pumped was, at times, the consistency of peanut butter. At other times, the steam condensate would not mix sufficiently with the oily cake, creating a two-phase liquid.

Shutdowns were required once or twice a week, at an average cost of \$650 for parts and labor. In addition, around four to five hours' production would be lost due to pump failure. As demand for their calcium sulfonate detergent additives increased, the plant could no longer tolerate this level of loss.

The Discflo Solution

No shutdowns, breakdowns or lost production for 3 years

“Non-impingement” pumping, laminar flow reduces abrasion

Pump designed to handle multiphase fluids with ease

To resolve the problem, the plant engineers decided to try a Discflo pump, which could handle the wide changes in viscosity. Since installation in 1989, the pumps have operated problem-free for three years, with *no* mechanical failures, *no* shutdowns to replace worn parts and *no* lost production. The company estimated that the savings in maintenance costs are around \$65,000 annually, and the time to recover the cost of the new pumps was less than three months.

Call Discflo now to find out how our pumps can solve your problems .



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