

Case Study: Cement Plant

MICRO-TEC® II



INDUSTRY

Mining

CUSTOMER

Large cement plant

BACKGROUND

Operating conditions at the plant are extremely aggressive and impede effective sealing. The temperature is usually above 130°F for most of the year with cement dust floating in the air.

CHALLENGES FACED

The seals began leaking approximately one year after startup. Oil levels needed to be checked 3 times daily and topped off every time. Without maintaining proper oil levels, the pump would begin to produce air bubbles leading to the failure of multiple pumps. The inconsistency in oil level eventually led to the failure of the bearings on the system. Through constant inspection, we saw the bearings fail over a six month period.

OPERATING CONDITIONS

Speed: 70 RPM

Temperature: 130°F max.

Media: Oil

Size: 9" - 15" shaft

SOLUTION AND BENEFITS

Garlock recommended a custom split MICRO-TEC® II bearing isolator. The MICRO-TEC® II offered superior lubrication retention, while its microcellular foam filter excluded external contamination. Its non-contact design eliminated the challenges produced through continual use of contact seals without the need for a costly overhaul. Since it was offered in a split configuration installation was quick and simple, getting them back up and running in minimal time. Savings from lost production, continual seal & bearing replacement and periodic fines amounted to over \$800,000.

For more information, please visit:

<http://www.garlock.com>



Prophet # 0490

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an EnPro Industries family of companies

Tel: 1-877-GARLOCK / 315.597.4811

Fax: 800.543.0598 / 315.597.3216

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