



Des-Case[®] Breathers

Eastern Concrete Materials, Inc. – Hamburg, N.J.

Telsmith Scalping Screen

- *Eliminated seal failures, saving an estimated \$30,000*
- *Increased production*

Customer Profile

Eastern Concrete Materials Inc., a subsidiary of US Concrete, operates a large high grade granite quarry. They run five 10-hour shifts weekly, with an output of 5,800 to 7,000 tons of crushed stone per day. The quarry has been in operation since 1954. Jesse Fabian is in charge of production. The plant produces numerous types of crushed stone that meet the needs of specialty markets. To accomplish this, many screen changes are required. Jesse has been able to maintain high production goals even with the interruptions of so many screen changes.

Application

An area that was a major concern to production was the Telsmith 6'X16' scalping screen. This screen separates the large size stone from the smaller stone. The location of the scalper is in the beginning of the process. Of course, when this screen is not operating, the production falls off.

Challenge

The OEM breather would plug up with dirt. The internal air pressure would build up and blow out the bearing seal on the vibrating screen bearing. Jesse and his crew had replaced the seals so many times that they were able to do it in two to four hours depending on various conditions. Most years they would have two seal failures. This equates to about 4,000 tons of stone lost due to unscheduled downtime.

LE Solution

David O'Connor, LE lubrication consultant, recommended that Jesse install the Des-Case Desiccant "Button" Breather which filters out the dirt and absorbs moisture.



Results

The Des-Case Desiccant "Button" Breather has prevented these seal failures for the last two seasons. Another benefit is that it is easy to see when the breather needs changing and its easy to change.

Jesse estimates that the savings are about \$30,000. He stated, "LE helped to increase production by solving a serious problem."



Other Products Used

- Almasol® High Temperature Lubricant (1250) is used throughout the plant.
- Multilec® Industrial Oil (6807) is used as the primary screen bearing oil.
- Monolec® R & O Compressor / Turbine Oil (6404) is used in the Lippmann jaw crusher.
- The crusher reservoirs are in the 250 gallon range and are equipped with the Des-Case Hygroscopic Breathers.



Thank you to Jesse Fabian (pictured left), and to David O'Connor, LE lubrication consultant (pictured right), for providing the information used in this report.



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Based on actual user experience. Individual results may vary. Not intended to supersede manufacturer specifications.

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