

CASE STUDY



Choke | CastoChrome®



The Challenge

A mining customer in Canada uses several pipes to transport rocks & mud mix slurry coming from their SAG Mill pumps. The current part design creates a Venturi effect – the reduction in fluid pressure that results when a fluid flows through a pipe's constricted section (or choke). Due to this, the customer experiences extreme slurry abrasion at the choke. As a result, the main challenge is frequent unscheduled operational shutdowns and production disruption every 2-3 months. After the site visit, the customer asked Castolin Eutectic Team's support and expertise to improve their current situation.

The Solution

After the site survey assessment, the Castolin Eutectic Sales and Asset Reliability team agreed to specify an engineered CastoChrome® design. CastoChrome is part of Castolin Eutectic's wear product offerings. Based on the performance of the existing pipe, our wear management team was confident in the proposed solution. The next step was to qualify the field performance and quantify the value for the client.

The Outcome

The Castolin Eutectic team delivered CastoChrome Choke on time for field installation. The CastoChrome part has been in operation for over 5 months, without any production stoppages. Based on the performance of CastoChrome Choke, the customer decided to retrofit all of their pipes and convert them to this better-performing solution. Our sales team will continue to work with the customer to help them qualify other areas of improvement in the mill.

- ➔ Benchmark solution to reduce operational disruption
- ➔ Reverse engineering services and custom CWI castings
- ➔ Global wear management network with local support in North America



Sustainable Solution



Turnkey Offerings



Global Support



Pioneering Industrial Sustainability



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