



TODD TECHNOLOGIES INC

Todd Technologies PowerBreather™ (TT-4-CV) Trial with Soybean Processor



Industry:

Food & Beverage Manufacturing

Location:

Southern Georgia

Product Used:

TTI PowerBreather-CV™ (TT-4-CV)

Applications:

- Gear Boxes
- Low-Flow
- High Humidity
- Washdown

Customer Profile:

A southern Georgia soybean mill that separates soybeans into value-add products such as high-quality vegetable oil for human consumption and soybean meal for the poultry industry

The Challenge:

Soybean mills are costly operations requiring high energy output and constant attention to detail to maintain a relatively smooth manufacturing process. There are thousands of moving parts that require around-the-clock maintenance. Part of the maintenance routine requires technicians to inspect, maintain and preserve the life of food grade oils kept in oil reservoirs that recirculate through mechanical drives, pumps and motors.

To ensure this equipment is operating smoothly, these oil reservoirs need to be free of moisture contamination using breathers. The mill had been experiencing shorter breather life using Air Sentry's GRC85C breather and wanted to trial a replacement that was also more cost effective and virtually eliminates moisture re-entry by using check-valve technology in a high moisture environment.

TTI PowerBreathers™ breathers increased service life 20%-25% longer compared to their current solution.

TTI breathers can reduce downtime and unplanned maintenance.

As a cost effective solution TTI can lower overall spend on breathers.

TTI's world class customer support and installation support can help in successful transition to all applications that breathers are used.



The Solution:

After a review of the soy mill's operation and TTI's product offering with experts at both TTI and Hydrotex, it was determined, based on sizing, that the mill should trial TTI's TT-4-CV breather.

After the trial stage, TTI's TT-4-CV breather lasted for 7 weeks before a replacement breather was required. This, compared to Air Sentry's product that would maintain efficiency for only 4-5 weeks, on average. Not only was the mill's breather life improved by 35-40% reducing maintenance costs and process downtime, the price of TTI's breather technology is 18% less through distribution by partner Waco Filters.

By implementing the TT-4-CV breather, TTI was able to provide a more efficient solution at a lower cost, while helping the soy mill improve operation and maintain quality of their product offering.

Product Specifications:

- Body Materials
ABS, Nylon, Polypropylene, Buna
- Moisture Absorbing Media
Silica Gel
- Filter Media
Polyester, Polyurethane
- Filter Efficiency
3 µm Absolute
- Operating Temperatures
-20°F to 200°F (-29°C to 93°C)

The evaluation team presented the following conclusions:

1. TTI breathers provide a 20%-25% longer service life versus the incumbent series.
2. This extra capacity available allowed the facility to reduce the number of planned maintenance cycles and process interruptions per year.
3. With a lower unit cost in the comparably-sized models, the TTI product further lowered overall spend on breathers.
4. The team supported an immediate conversion to TTI breathers.

TTI is proud to report that their breathers have out-performed competitive units in 100% of side-by-side industrial trials.

Please contact your TTI representative for additional details.

We welcome the opportunity to accept your trial challenge and prove that TTI offers the best overall product value.

Contact Us:

303-585-0132

Sales@ToddTechInc.com

www.ToddTechInc.com

ADDRESS:

4699 Nautilus Court South
Suite #404
Boulder, Colorado 80301
USA