



TODD TECHNOLOGIES INC

Todd Technologies Power Breather (TT-BB-CV) Provides 25% Longer Life in Biodiesel Manufacturer



Industry:

Industrial Manufacturing

Location:

Eastern Missouri

Product Used:

TTI Power Breather CV (TT-BB-CV)

Applications:

- Gear Boxes
- Transfer Pumps

Customer Profile:

An eastern Missouri oilseeds processor separating soybeans into value-add products like high-quality vegetable oil to produce biodiesel fuels and various animal feeds.

The Challenge:

Oilseed manufacturing is a high cost operation, not only in the cost of starting product, but they also require high energy usage and constant attention to detail to maintain a relatively smooth manufacturing process. Thousands of moving parts require around-the-clock maintenance. Part of the maintenance routine requires technicians to inspect, maintain and preserve the life of hydraulic fluids housed in oil reservoirs that recirculate through transfer pumps and reciprocating equipment.

For their equipment to operate smoothly, these oil reservoirs need to be free of moisture contamination. This is achieved by using 'breathers' to allow air flow while trapping free moisture. This facility had been experiencing shorter breather life while using DesCase's DC-VG-BB series. They wanted to trial a cost-effective replacement, not only to extend operating life in a high moisture environment, but to nearly eliminate moisture re-entry using a breather with check-valve technology.

TTI 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 oilseed operation and TTI's product offering with experts at both TTI and Waco Filters, it was determined, based on sizing, that the facility should trial TTI's TT-BB-CV series.

After the trial stage, TTI's TT-BB-CV breather provided a 25% longer service life compared to DesCase's DC-VG-BB breather. By extending service life, TTI helped reduce maintenance costs and process downtime. The price of TTI's breather technology is also beneficial to manufacturers, marked down significantly less using distribution partner, Waco Filters.

By TTI supplying the oilseed processor the TT-BB-CV breather, the facility was able to implement a more efficient solution at a lower cost all while helping improve operations and maintaining product integrity.

Product Specifications:

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



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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.

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