
CASE STUDY

Chemical Applications

Amafilter® improved
filtrate quality
and reduced
maintenance
interventions and
costs with
the Cricketfilter®

ON-SITE LABORATORY TESTS PROVED
THE CRICKETFILTER® WAS THE
IDEAL SOLUTION TO IMPROVE THE
CUSTOMER'S FILTRATION PROCESS
EFFICIENCIES



CASE STUDY

Chemical Applications

Industry:
Chemical
Application:
**Additives for lubricants
and engine oils**
Product:
**Amafilter® Cricketfilter®
automated system**

BACKGROUND

A well recognised French manufacturer, our client has been in the chemical industry for over 100-years and has worked alongside amafilter® for eighteen. Furthermore, they are a subsidiary of a large corporation, which allows them to develop, manufacture and market lubricants, fuel additives and chemicals to customers worldwide.

THE CHALLENGE

The issue the client faced was the varying quality of their filtrate. At times, the existing filters would work correctly and produce a high-quality product. At other times, the opposite was true.

The client existing filters and filter aids were no longer delivering to requirements, and by replacing them with the amafilter® Cricketfilter®, we expected to stabilise the inconsistencies caused by the currently installed filters and deliver consistent product quality as well as make maintenance easier for the client.

Adapting the existing system process to function efficiently with the Cricketfilter® was also a challenge we needed to overcome.

THE SOLUTION

Following on-site laboratory tests, the client chose the Cricketfilter® as the ideal solution to their consistency issues due to the cake discharge possibilities and the low maintenance offered by the amafilter® system.

A skid-mounted unit with two Cricketfilters® was commissioned and installed by amafilter®. The customer provided the amafilter® engineering team with regular progress updates to ensure any required adaptations were made to the system which would guarantee continuity and a high standard of filtration for the lubricants and engine oil.

THE RESULTS

Following the installation of the Cricketfilter®, the client found the application provided consistent, high-quality filtrate that met their customers' specifications. The Cricketfilter® also effectively processed feed variations by adapting its filtration parameters, enabling it to significantly reduce the quantity of filter aid needed compared to the amount required with the previous rotating filter systems.

This reduced the number of manual interventions needed for maintenance and reduced filter aid costs.

Following this successful implementation, the client installed a second skid-mounted unit complete with two more Cricketfilters®.

OUR PRODUCT

The Cricketfilter's® proven technology, installed in over 1,000 industrial applications globally, provides customers with several advantages. Key among these is the large filtration surface area provided by the unique design of the filter element.

The Cricketfilter® features and benefits:

- It is simple to clean, as it uses air or gas pulses for cleaning the elements section by section without requiring a vibrator.
- It can be used with filter cloths of various pore sizes and materials, reducing and, at times, eliminating the extra pre-coating needed, making filtration more economical.
- It is possible to automate, ensuring it is low maintenance.
- Due to the element shape, the Cricketfilter® has up to 40% more filtration area and can hold up to 40% more cake than a traditional round-shaped element.
- It is mould welded, which means the element results in highly accurate dimensional tolerances and ensures a perfect fit of the filter cloth.



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