



Amafilter® Services

CORRECTIVE MAINTENANCE PROGRAMME

A corrective maintenance programme can optimise your filtration efficiencies, reduce your maintenance costs and lead to a safer and more profitable operation.

The amafilter® service team investigate the efficiency of two horizontal pressure leaf filter systems and advises customers on a series of corrective maintenance programme steps that will optimise filtration efficiencies, reduce maintenance costs and lead to a more profitable operation.

Should you wish to have tests carried out at your plant, we have an extensive range of testing equipment which can be rented and installed at your premises. This will provide you with information on the suitability of your chosen system, ensuring you reduce capital investment risk and achieve the best possible results for your operation.

Effectively Implemented Service Programmes Can Assist Customers Around The World Improve Their Filtration Processes

BACKGROUND

The Amafilter® team were asked to investigate two RBDCD horizontal pressure leaf filter systems which were no longer operating to their maximum efficiencies.

Amafilter® had supplied these two horizontal pressure leaf filter systems years earlier to a company specialising in the purification of vegetable oils and fats for the food industry. The systems were originally installed to assist in the refining of vegetable oils and fats through process steps of bleaching, deodorizing or winterization to remove waxes.

THE INVESTIGATION

The Amafilter® service team carried out a thorough investigation of the existing systems and concluded that a number of essential repairs were required to optimize filtration productivity.

The investigation identified that the manifold needed to be replaced due to wear and tear and the pressure filter leaf elements, the heart of the horizontal pressure leaf systems, had been damaged over time and needed to be both, repaired and deeply cleaned.

The damaged filter elements were also bridging, which is when too much cake is accumulated on the filter elements installed opposite each other, causing them to join together, leading to blockages. Bridging also results in the dry cake not being produced efficiently and not being easily removed from the plates. These issues were reducing filter capacity and flux and effecting product quality.

Finally, the vibrator bar, which assists regeneration, was damaged, causing delays and manual intervention during the regeneration step.

The investigation identified a number of key product and system failures that were causing significant process inefficiencies, leading to a lower product quality and numerous costly maintenance interventions.

THE OUTCOME

Upon completion of the site inspection, the amafilter® service team recommended a number of improvements that would optimise the filtration process and maximise efficiencies.

The service experts recommended that a complete corrective programme should be carried out to resolve these on-going issues.

This would include:

- mechanical maintenance assistance
- replacing of manifold
- the aligning of the filter elements
- the replacement of both the broken seals and the vibrator bar



THE CONCLUSION

Even the best systems lose capacity over time and need refurbishing. Importantly, they need on-going repairs and maintenance to ensure they operate efficiently, avoiding unnecessary downtime and increased operational costs due to continuous maintenance interventions.

With years of expertise in filtration, having serviced customers across the globe, the amafilter® service team can identify and recommend the correct repairs and improvements for your filtration systems.

We can also train your team to service and maintain your systems to their optimal operational output and provide guidance thereafter.

Implementing the corrective maintenance programme repairs suggested by the amafilter® service team, would significantly improve efficiencies, reduced costly maintenance interventions, contributing to a safer working environment.

This will ensure the end product is produced to the standard of quality required, whilst optimising your filtration process and improving operational profits.

SERVICES

MAINTENANCE PROGRAMMES

Once your system is installed, we provide technical assistance on and off site. And we have a number of maintenance programmes to choose from:

Corrective maintenance: Providing filtration remedies to resolve and repair systems problems and/or malfunctions.

Preventive maintenance: Offering pro-active maintenance on filtration systems and accessories to increase reliability, prevent damage and reduce downtime.

Training: Providing on-site maintenance training programmes. Our knowledgeable engineers share their valuable experience and ensure your team is trained in filtration techniques that deliver the best possible filtration efficiencies, reduce maintenance and create a safer working environment.

