

Centrifugal Filtration Technology

for Diesel Engines

The logo for FloSolve is centered within a light gray diamond shape. It features the word "FloSolve" in a sans-serif font, with "Flo" in blue and "Solve" in green. Above the text is a blue curved line, and below it is a green curved line, resembling a stylized wave or leaf.

FloSolve





“ Increased performance,
decreased maintenance,
greener footprint! ”

What is CFT?

Centrifugal Filtration Technology or CFT is an attachment to existing diesel engine air intake filtration systems.

These CFT systems are available as standard systems as well as custom designed systems.

These systems are suitable for the typical high dust load situations encountered by large earthmoving and agricultural machinery.

Benefits of CFT

- Reduced dust load on the media filter.
- Extended life of standard media filters.
- Engine life improvement is achieved by reducing the silica content in the engine oil.
- More efficient engine operation with less frequent media filter changes required.
- Reduced Carbon footprint.

How does it work?

The pre-filter is an array of ultra high efficiency, high packing density vortex tubes stacked into an airtight chamber and fitted with an exhaust venturi scavenge system.

The vortex tubes continuously remove the bulk of the intake dust down to micron size particles. The result is media filter-elements that last up to 9 times longer.



Case Study - Pit Viper 351 Drill

In a proof of concept test conducted on a Pit Viper 351 drill at Kumba Sishen Iron Ore mine.

It was found that the old filter systems filter life was 250 hrs, the new filter system filter life was 1000 hrs. With the CFT filter system installed we eliminate the 250, 500 & 750 hrs element exchanges. This means a saving of three filter changes outs per 1000 hrs. The secondary filter elements will be replaced every second service or every 500 hrs.

This means that the savings from installing the CFT filter system can be used to install additional CFT systems on other drills and hence the project does not have to be funded from capital expenditure but can be funded from the savings on the maintenance budget.



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