

FLUID CONDITIONING SYSTEMS



removing the barriers to fluid cleanliness

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FCS continues to update its website in line with new applications, fuller versions of all of the case-studies in this Newsletter are included

Finnish line for washing problems...



TARKMET Oy, a supplier of diesel pump parts to various global engine manufacturers has to supply its parts clean. Magnum's Finnish Distributor installed a 5" Clear in one of their washing machines to improve the components' cleanliness.

After the washing process the parts are sampled for finish and cleanliness, the Magnum™ dramatically improved both. The Magnum™ core to the right was removed from the washing machine after 1 week, metallic particulate ranging from less than a micron to thousands of micron is clearly visible. With pump dynamic clearances of just a few micron this particulate would have certainly caused component failure and therefore dramatic warranty costs had it not been removed.



Magnum™ keeps furnace burning in Asia



Towngas, a Hong Kong based utility company was having problems with contamination in the naphtha fuel (a hydrocarbon) in a large furnace.

The system included some resin type filters (see the right hand side of the photo) but these were allowing fine rust to pass through.

A Magnum™ Process Unit was installed downstream of the conventional filters and inspected after 6 weeks. At that point the first 2 Magnum™ cores were full of rust (about half a pound of very fine particulate), ensuring a service interval of 6 months at the least before cleaning was required. The Magnum™ was found to improve the reliability of the system dramatically, engineers were so pleased with this result that they have ordered 3 more for similar applications.



Magnum™ filter carts show benefits fast...

FCS has developed a range of portable trolleys incorporating the Magnum™ technology. A number of distributors use these as a means to simply demonstrate to customers the advantage of Magnum™ as they can be simply wheeled from application to application.



Magnum™ is now a regular in fuel lines...



The Magnum™ has recently been applied to a vast array of fuel applications to condition the fuel, removing metallic contamination and breaking up bacteria so that it is free to pass through injectors. The Magnum™ is an insurance policy, protecting against injectors blocking and engines failing...

Markets enjoying these benefits include marine and agricultural diesel owners.

