



RCI Purifier Technologies Filter performance in Petroleum Distillates

We – Inpechem Inspectors B.V. – has received the request from the Company BO&AC to make a research on the working of a filter on petroleum distillates.



We have tested various petroleum distillates, ranging from Marine Gas oil - MGO - to Marine Diesel Oil MDO - as standard used for bunker fuel fuels to the shipping industry, bearing in mind its standard specification of ISO 8217-2005.

Marine Diesel Oil was contaminated with various substances:

- Rust - Iron Oxide**, as formed on mild steel shore tanks and / or other tanks and pipelines.

The filter is able to reduce the iron oxide content to 70 % of the original iron oxide content.
- Particulate Matter**, particles were filtered over a 5 micron filter and the contents is reduced to 50 % of "Total Contamination"
- Catalyst Fines** as Aluminium Oxides and Silicon Oxides, derived from Catalytic refining, are a problem to abrasive wear in the engine. These fines are nearly not filtered, due its very small size. A quantity of 65 % cat fines has a size of 5 micron and below.
- Free water** is most significant reduced up to 98 % in a single filtration.
- Sand (soil)** is significant reduced up to 98 % in a single filtration. Laboratory test shows nearly all sand was filtered, basis 5 micron laboratory filter.



CONCLUSION:

Based on tests as performed at Inpechem Inspectors B.V. – March 2007 –
The RCI Purifier filter removes easily free water and major parts of rust and sand, in general all solid particles above 5 micron size.



Sincerely Yours,

ing. P. Meeussen
Ing. P.J. M. Meeussen

For and on behalf of Inpechem Inspectors B.V.



All orders are executed only in accordance with our conditions filed at the Chamber of Commerce, May 17, 2005.