



## Filter Trays Vital To Onstream Streak

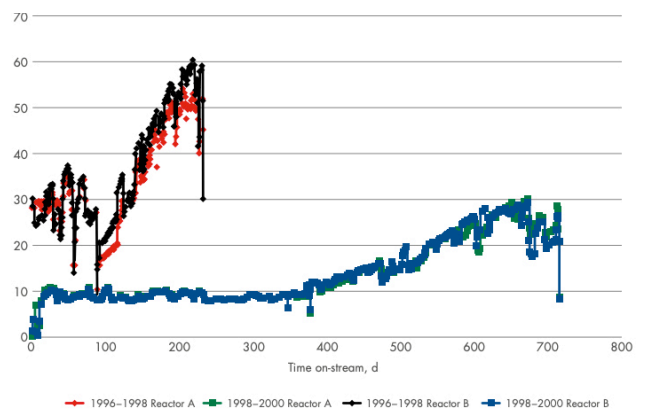
**The Shell Martinez Refinery saw a 300% increase in the days onstream in both reactors after installing Shell Filter trays.**

Located in Martinez, California, the Shell Martinez Refinery operates under the Shell brand name. They refine and market gasoline and other petroleum products to branded retailers in the West and Northern Midwest regions.

Two reactors in parallel guard the catalytic feed hydrotreater (CFH) at the refinery. However, they had a history of pressure drop build-up. This was linked to non-filterable dissolved iron in the CFH feedstock, which averaged about 5,000–6,000 lb/y. The pressure drop build-up reduced the recycle gas flow during the run, causing accelerated catalyst deactivation. Consequently, the pressure drop build-up in the CFH guard beds resulted in a shorter run length and poorer performance towards the end of the run.

By installing Combined Shell Filter/High-Dispersion Trays, the Shell Martinez Refinery was able to combat both pressure drop build-up and residual non-filterable dissolved iron effectively resulting in more time-on-stream, consistent production, higher throughput, and increased profitability.

**The CFH's Days Onstream Increasing by Over 300%**



Shell Catalysts & Technologies is a network of independent technology companies including Shell Global Solutions, all within the Shell Group. In this material, the expressions "Shell Catalysts & Technologies", "the Shell Group" and "Shell Global Solutions" are sometimes used for convenience where reference is made to these companies in general, or where no useful purpose is served by identifying a particular company.

The information contained in this material is intended to be general in nature and must not be relied on as specific advice in connection with any decisions you may make. The companies within the Shell Group are not liable for any action you may take as a result of you relying on such material or for any loss or damage suffered by you as a result of you taking this action. Furthermore, these materials do not in any way constitute an offer to provide specific services. Some services may not be available in certain countries or political subdivisions thereof.

**Discover More Solutions**  
at [Shell.com/business-customers/catalysts-technologies](https://www.shell.com/business-customers/catalysts-technologies)