

Water and Particulate Separation — Challenges of Green Fuel

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Abstract

With ever-growing use of biodiesel in the world, especially in Europe and the United States, there are challenges to meet the strict industrial standards for water and particulate removal with existing engine filter units while keeping their normal service life. This paper will discuss the urgency to develop more advanced filter media and technologies for the application. Three different fuel filters (synthetic, glassfiber, and cellulose) from current market were investigated and evaluated by dust holding capacity, water removal efficiency, and chemical resistance.