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Title: ISO Soot Test Method Overview

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ABSTRACT

This presentation discusses a new and developing ISO standard related to automotive air filtration systems. The method discusses using soot contaminant to evaluate air filtration systems for automotive and compressor intake applications. A brief overview is given along with challenges for the new standard. Specifically this new proposed technical standard relates to evaluating Engine Intake, Passenger Cabin Air filter systems.

The current test standards for automotive air filtration uses standard test dusts that may or may not be representative of real world conditions. In typical driving conditions, soot contaminant is considered a major contributor. Soot behaves very differently compared to dry test dust and how the filter performs. Soot contaminant is in the nano size range and is very difficult to remove. Asian OEMs are especially concerned about soot and the air filters removal ability to protect the engine. The new proposed technical standard addresses this challenge.

BIOGRAPHY, SHORT SKETCH

Technical Advisor to IBR Test labs
Currently a Consultant

PRIOR CAREER AFFILIATIONS (Include organizations, titles, dates):

- 2000 -2008: Technical Fellow Developing automotive filtration and separation systems with Visteon Corp
- 1991-2000 – Senior Technical Specialist, Automotive Components Div., Ford Motor Co

EDUCATION (Include degrees, institutions, dates):

M.S. Mechanical Engineering – University of Minnesota – Particle Technology Group

OTHER (Publications patents, research, etc.):

- Authored and co-authored 25 technical papers and publications in various technical societies and journals.
- Awarded 11 patents in the field of Automotive Technology, Fluid Filtration and Separation systems.