

Progress Update on ISO Crankcase Ventilation Separation Test Standards Development

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Due to increasingly stringent environmental regulations, improved crankcase ventilation contamination control has become a requirement for diesel engines. Fundamental to the development of crankcase ventilation products is the development of a worldwide standard to evaluate the effectiveness of these products. The ISO WG11 committee is responsible for developing worldwide crankcase ventilation test standards. ISO 20564-1 & -2, which deals with crankcase ventilation filtration for engines, has been in development for several years. The committee has created a functional draft test standard that will help standardize crankcase ventilation testing. The WG11 committee is currently transferring to new leadership.

The WG11 committee is currently working to make a globally acceptable standard that will be utilized over a range of crankcase ventilation users and manufacturers. This paper will also discuss the direction the committee is going and many several pending technical issues. This paper will discuss the proposed methods for testing both under laboratory conditions and on engine.

Bio Sketch

NAME: Scott P. Heckel

TITLE: Senior Staff Engineer

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PRIOR POSITION (S) WITH ABOVE ORGANIZATION:

Development Engineer, Digisonix 1994-1996, Research Engineer 1996-2000, Staff Research Engineer 2000-2004, Senior Staff Engineer 2005-Present

PRIOR CAREER AFFILIATIONS:

Planning Systems Incorporated, Acoustic Analyst 1992-1994

EDUCATION (Include degrees, institutions, dates):

BS, Mechanical Engineering, University of Wisconsin-Milwaukee, May 1991

MS, Mechanical Engineering, Virginia Polytechnic Institute and State University, December 1992

OTHER (Publications patents, research, etc.):

Holds 12 Patents and has written 10 technical papers in the areas of acoustics, air filtration, crankcase ventilation and international test standards. Scott has been an active member of both SAE and ISO test standards committees for the development of crankcase ventilation test standards. Recent technology development work has included electrostatic separators for CV, variable CV impactors, advanced CV test methods and engine air handling system architecture.