STP 1491
Engine Coolant Technologies: 5th Volume

Table of Contents

Overview

Coolant Development in Asia—H. Egawa, Y. Mori, M.L. Abel

Heavy Duty Diesel Engine Coolant Technology: Past, Present, and Future—
H.J. DeBaun, F.C. Alverson

Field Test for Carboxylate Inhibitor Levels in OAT Coolants—R.J. Pellet,
L.S. Bartley, Jr, P.O. Fritz

A Comparison of Membrane Technologies for Engine Coolant Recycling—
R. Hudgens, E. Schmidt, M. Williams

New Electrochemical Methods for the Evaluation of Localized Corrosion in Engine
Coolants—B. Yang, F.J. Marinho, A.V. Gershun

Compatibility Testing of Multi-Vehicle Coolant Chemistries—A.P. Skrobul,
S.L. Balfe, F.C. Alverson

Investigation of Interaction Between Coolant Formulations and Flux Loading/Compositions
in Controlled Atmosphere Brazed (CAB) Aluminum Surfaces in Heat Exchanger
Applications—C. Jeffcoate, M. Ranger, J. Grajzl,
B. Yang, P. Woyciesjes, A. Gershun

Effect of Fluoride on Corrosion of Cooling System Metals in Ethylene Glycol-Based
Antifreeze/Coolants—B. Yang, A.V. Gershun, F.J. Marinho, P.M. Woyciesjes

Heavy-Duty Diesel Engine Cavitation Test—G. Davis, M. Sarlo

Component Durability and High Mileage Performance of a Full Carboxylate Coolant in
Heavy Duty Diesel (HDD) Engines—P.O. Fritz, L.S. Bartley, Jr., R. Pellet, V. Moser, C.
Ulabarro

Cavitation Protection Performance of Nitrite-Free Organic Acid Based Coolant for Heavy-
Duty Engines—Y. Mori, M.L. Abel, Y. Miyake

Accelerated Oxidation and Corrosion Testing of Engine Coolants Using a Rotary Pressure
Vessel Oxidation Test—F.C. Alverson, S.L. Balfe, A.P. Skrobul

Coolants at Elevated Temperatures—S. Claeys, S. Lievens

Comparison of Bench Test Methods to Elevate Heavy Duty Coolant Thermal Stability—Y.
Chen, R.D. Hudgens, E.R. Eaton