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- Kapila Wadumesthrige, Nicholas Johnson, Mark Winston-Galant, Haiying Tang, K. Y. Simon Ng, and Steven O. Salley
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- John M. Storey, Teresa Barone, Kevin Norman, and Samuel Lewis
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- Yi Yang, John Dec, Nicolas Dronniou, and Blake Simmons
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- Gareth Floweday
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- Adam Brandt, Edwin Frame, Greg Hansen, Robert Warden, Douglas Yost, Allen Comfort, and Luis Villahermosa
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- Andrew Mathes, Jacob Ries, Patrick Caton, Jim Cowart, Dianne Luning Prak, and Leonard Hamilton
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- Ian Whelan, Stephen Samuel, David Timoney, and Ahmed Hassaneen
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- Samuel A. Lewis, John Storey, Charles Sluder, Kukwon Cho, Raynella Connatser, and Teresa Barone
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- Scott D. Schwab, Joshua J. Bennett, Steven J. Dell, Julie M. Galante–Fox, Alexander M. Kulinowski, and Keith T. Miller
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- Michele Battistoni and Carlo Nazareno Grimaldi
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- Rinaldo Caprotti, Nadia Bhatti, and Graham Balfour
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- Thierry Delvigne
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- Ewa Bardasz, Elizabeth A. Schiferl, Jonathan S. Vilardo, Thomas T. Curtis, Frances E. Lockwood, Thomas R. Smith, and Timothy Lee Caudill
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- Pritesh A. Patel, Catherine S. Puckett, David S. George, and Kirk A. Nass
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- Vitaly Y. Prikhodko, Scott J. Curran, Teresa L. Barone, Samuel A. Lewis, John M. Storey, Kukwon Cho, Robert M. Wagner, and James E. Parks
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 SAE Int. J. Fuels Lubr. December 2010 3:946–955; doi:10.4271/2010-01-2266
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- James E. Parks, Vitaly Prikhodko, William Partridge, Jae-Soon Choi, Kevin Norman, Shean Huff, and Paul Chambon
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 SAE Int. J. Fuels Lubr. December 2010 3:956–962; doi:10.4271/2010-01-2267
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- Huifang F. Shao, Anna Plaatje, and Michael Meffert
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- Juergen Krahl, Axel Munack, Olaf Schroder, and Yvonne Ruschel
 500 Hours Endurance Test on Biodiesel Running a Euro IV Engine
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- George Karavalakis, Evaggelos Bakeas, and Stamos Stournas
 An Experimental Study on the Impact of Biodiesel Origin and Type on the Exhaust Emissions from a Euro 4 Pick-up Truck
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- Norifumi Mizushima, Yutaka Murata, Hisakazu Suzuki, Hajime Ishii, Yuichi Goto, and Daisuke Kawano
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- Manuch Nikanjam, James Rutherford, and Kent Spreen
 Performance and Emissions of Diesel and Alternative Diesel Fuels in a Heavy-duty Industry-Standard Older Engine
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- Michael J. Covitch, Mike Brown, Chris May, Theodore Selby, Isabella Goldmints, and David George
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- Theodore W. Selby
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 SAE Int. J. Fuels Lubr. December 2010 3:1041–1050; doi:10.4271/2010-01-2288
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- Katsumasa Kiuchi, Ryo Suzuki, Hiroaki Yano, Shintaro Yagi, and Akihiko Tomoda
 Development of Paper Exhaust Catalyst Material for Emission Control in Small Internal Combustion Engines (2)
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- Olawole Abiola Kuti, Wu Zhang, Keiya Nishida, Xiangang Wang, and Zuohua Huang
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 SAE Int. J. Fuels Lubr. December 2010 3:1057–1070; doi:10.4271/2010-32-0053
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- Jeff R. Wasil, Justin Johnson, and Rahul Singh
 Alternative Fuel Butanol: Preliminary Investigation on Performance and Emissions of a Marine Two-Stroke Direct Fuel Injection Engine
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- Yasuo Moriyoshi and Minoru Iida

Analysis of Port Injected Fuel Spray Under Cross Wind Using 2-D
Measurement Techniques
SAE Int. J. Fuels Lubr. December 2010 3:1081–1092; doi:10.4271/2010-
32-0064
[Abstract](#) [Full Text \(PDF\)](#)

Koji Yoshida
Application of Cellulosic Liquefaction Fuel (CLF) and Fatty Acid Methyl
Ester (FAME) Blends for Diesel Engine
SAE Int. J. Fuels Lubr. December 2010 3:1093–1102; doi:10.4271/2010-
32-0080
[Abstract](#) [Full Text \(PDF\)](#)

Brent R. Dohner, Michael S. Brenner, and Laimute Svarcas
Demonstration of the Ability of a Novel Engine Oil to Remove
Hydrocarbon Deposits in Two-Stroke Engines
SAE Int. J. Fuels Lubr. December 2010 3:1103–1111; doi:10.4271/2010-
32-0122
[Abstract](#) [Full Text \(PDF\)](#)

Scott A. Miers, Christopher Green, Jay Meldrum, and Matt Chmielewski
Measurement of Regulated and Unregulated Exhaust Emissions from
Snowmobiles in the 2009 SAE Clean Snowmobile Challenge
SAE Int. J. Fuels Lubr. December 2010 3:1112–1121; doi:10.4271/2010-
32-0126
[Abstract](#) [Full Text \(PDF\)](#)