

Table of Contents

November 2012; 5 (3)

[Clear](#) [Get All Checked Abstracts](#)

Articles

- Ken Kimura, Leslie Wolf, James Baustian, and Harold Haskew
Hydrocarbon Permeation in Gasoline Vehicle Fuel Systems Using Isobutanol Blends
SAE Int. J. Fuels Lubr. November 2012 5:901–927; doi:10.4271/2012-01-1582
[Abstract](#) [Full Text \(PDF\)](#)

- George Karavalakis, Maryam Hajbabaei, Thomas Durbin, Zhongqing Zheng, and Kent Johnson
Influence of Different Natural Gas Blends on the Regulated Emissions, Particle Number and Size Distribution Emissions from a Refuse Hauler Truck
SAE Int. J. Fuels Lubr. November 2012 5:928–944; doi:10.4271/2012-01-1583
[Abstract](#) [Full Text \(PDF\)](#)

- James W G Turner, Richard J Pearson, Arthur Bell, Stefan de Goede, and Christopher Woolard
Iso-Stoichiometric Ternary Blends of Gasoline, Ethanol and Methanol: Investigations into Exhaust Emissions, Blend Properties and Octane Numbers
SAE Int. J. Fuels Lubr. November 2012 5:945–967; doi:10.4271/2012-01-1586
[Abstract](#) [Full Text \(PDF\)](#)

- Stephanie Camerlynck, John Chandler, Ben Hornby, and Isabel van Zuylen
FAME Filterability: Understanding and Solutions
SAE Int. J. Fuels Lubr. November 2012 5:968–976; doi:10.4271/2012-01-1589
[Abstract](#) [Full Text \(PDF\)](#)

- Seppo Mikkonen, Ulla Kiiski, Pirjo Saikkonen, and Jari Sorvari
Diesel Vehicle Cold Operability: Design of Fuel System Essential Besides Fuel Properties
SAE Int. J. Fuels Lubr. November 2012 5:977–989; doi:10.4271/2012-01-1592
[Abstract](#) [Full Text \(PDF\)](#)

- Manuel Dahmen, Manuel Hechinger, Juan Victoria Villeda, and Wolfgang Marquardt
Towards Model-Based Identification of Biofuels for Compression Ignition Engines
SAE Int. J. Fuels Lubr. November 2012 5:990–1003; doi:10.4271/2012-01-1593
[Abstract](#) [Full Text \(PDF\)](#)

- Huajie Ding, Xiumin Yu, and Junjie Li
Permanent Magnetic Model Design and Characteristic Analysis of the Short-stroke Free Piston Alternator
SAE Int. J. Fuels Lubr. November 2012 5:1004–1009; doi:10.4271/2012-01-1610
[Abstract](#) [Full Text \(PDF\)](#)

- Kannan Subramanian, Ganeshkumar Ramakrishnan, and Palanivelu Prabaharan
Lithium Ion Battery for Hybrid and Electric Mobility under Indian Ambient Conditions – A Perspective
SAE Int. J. Fuels Lubr. November 2012 5:1010–1016; doi:10.4271/2012-01-1611
[Abstract](#) [Full Text \(PDF\)](#)

- Kazuo Takeuchi, Kosuke Fujimoto, Satoshi Hirano, and Minoru Yamashita
Investigation of Engine Oil Effect on Abnormal Combustion in Turbocharged Direct Injection – Spark Ignition Engines
SAE Int. J. Fuels Lubr. November 2012 5:1017–1024; doi:10.4271/2012-01-1615
[Abstract](#) [Full Text \(PDF\)](#)

- Jeremy Styer and Gregory Guinther
Fuel Economy Beyond ILSAC GF-5: Correlation of Modern Engine Oil Tests to Real World Performance
SAE Int. J. Fuels Lubr. November 2012 5:1025–1033; doi:10.4271/2012-01-1618
[Abstract](#) [Full Text \(PDF\)](#)

- Gregory Guinther and Jeremy Styer
Development of a Novel Vehicle-Based Method to Assess the Impact of Lubricant Quality on Passenger Car Energy Efficiency
SAE Int. J. Fuels Lubr. November 2012 5:1034–1047; doi:10.4271/2012-01-1619

[Abstract](#) [Full Text \(PDF\)](#)

- Amer Amer, Hassan Babiker, Junseok Chang, Gautam Kalghatgi, Philipp Adomeit, Adrien Brassat, and Marco Günther
 Fuel Effects on Knock in a Highly Boosted Direct Injection Spark Ignition Engine
 SAE Int. J. Fuels Lubr. November 2012 5:1048–1065; doi:10.4271/2012-01-1634
[Abstract](#) [Full Text \(PDF\)](#)
- Austin Zurface, Scott Brownell, David Genise, Patrick Tow, and James Tuttle
 Design and Development of a Switching Roller Finger Follower for Discrete Variable Valve Lift in Gasoline Engine Applications
 SAE Int. J. Fuels Lubr. November 2012 5:1066–1077; doi:10.4271/2012-01-1639
[Abstract](#) [Full Text \(PDF\)](#)
- William Imoehl, Luca Gestri, Marco Maragliulo, Licia Del-Frate, Manfred Klepatsch, and Ray Wildeson
 A DOE Approach to Engine Deposit Testing used to Optimize the Design of a Gasoline Direct Injector Seat and Orifice
 SAE Int. J. Fuels Lubr. November 2012 5:1078–1095; doi:10.4271/2012-01-1642
[Abstract](#) [Full Text \(PDF\)](#)
- Magnus Sjöberg and David Reuss
 NO_x-Reduction by Injection-Timing Retard in a Stratified-Charge DISI Engine using Gasoline and E85
 SAE Int. J. Fuels Lubr. November 2012 5:1096–1113; doi:10.4271/2012-01-1643
[Abstract](#) [Full Text \(PDF\)](#)
- Panu Karjalainen, Topi Ronkko, Tero Lahde, Antti Rostedt, Jorma Keskinen, Sanna Saarikoski, Minna Aurela, Risto Hillamo, Aleksi Malinen, Liisa Pirjola, and Arno Amberl
 Reduction of Heavy-Duty Diesel Exhaust Particle Number and Mass at Low Exhaust Temperature Driving by the DOC and the SCR
 SAE Int. J. Fuels Lubr. November 2012 5:1114–1122; doi:10.4271/2012-01-1664
[Abstract](#) [Full Text \(PDF\)](#)
- Jack Zakarian
 The Limitations of the Viscosity Index and Proposals for Other Methods to Rate Viscosity-Temperature Behavior of Lubricating Oils
 SAE Int. J. Fuels Lubr. November 2012 5:1123–1131; doi:10.4271/2012-01-1671
[Abstract](#) [Full Text \(PDF\)](#)
- Seyed Ali Hadavi, Hu Li, Grzegorz Przybyla, Ross Jarrett, and Gordon Andrews
 Comparison of Gaseous Emissions for B100 and Diesel Fuels for Real World Urban and Extra Urban Driving
 SAE Int. J. Fuels Lubr. November 2012 5:1132–1154; doi:10.4271/2012-01-1674
[Abstract](#) [Full Text \(PDF\)](#)
- Jim Barker, Colin Snape, and David Scurr
 A Novel Technique for Investigating the Characteristics and History of Deposits Formed Within High Pressure Fuel Injection Equipment
 SAE Int. J. Fuels Lubr. November 2012 5:1155–1164; doi:10.4271/2012-01-1685
[Abstract](#) [Full Text \(PDF\)](#)
- Yasufumi Yoshimoto, Eiji Kinoshita, Shanbu Luge, and Takatoshi Ohmura
 Combustion Characteristics of a Dual Fuel Diesel Engine with Natural Gas (Lower limit of Cetane Number for Ignition of the Fuel)
 SAE Int. J. Fuels Lubr. November 2012 5:1165–1173; doi:10.4271/2012-01-1690
[Abstract](#) [Full Text \(PDF\)](#)
- Adrian James Velaers and Stefan de Goede
 The Properties and Injector Nozzle Fouling Performance of Neat GTL and GTL/EN590 Diesel Blends in Various Diesel Engines
 SAE Int. J. Fuels Lubr. November 2012 5:1174–1186; doi:10.4271/2012-01-1692
[Abstract](#) [Full Text \(PDF\)](#)
- Paul Lacey, Sandro Gail, Jean Marc Kientz, Geoffroy Benoist, Peter Downes, and Christian Daveau
 Fuel Quality and Diesel Injector Deposits
 SAE Int. J. Fuels Lubr. November 2012 5:1187–1198; doi:10.4271/2012-01-1693
[Abstract](#) [Full Text \(PDF\)](#)
- Eric M. Kurtz, Douglas Kuhel, James E. Anderson, and Sherry A. Mueller
 A Comparison of Combustion and Emissions of Diesel Fuels and Oxygenated Fuels in a Modern DI Diesel Engine
 SAE Int. J. Fuels Lubr. November 2012 5:1199–1215; doi:10.4271/2012-01-1695
[Abstract](#) [Full Text \(PDF\)](#)

- Lei Zhou, M.D. Boot, and L.P.H. de Goey
The Effect of the Position of Oxygen Group to the Aromatic Ring to Emission Performance in a Heavy-Duty Diesel Engine
SAE Int. J. Fuels Lubr. November 2012 5:1216–1239; doi:10.4271/2012-01-1697
[Abstract](#) [Full Text \(PDF\)](#)

- James A. McGeehan, Wim Van Dam, Keith Narasaki, Alexander B. Boffa, James A. Rutherford, Kevin Carabell, Casey Stokes, Ken Nelson, and Sheila W. Yeh
Extending the Boundaries of Diesel Particulate Filter Maintenance With Ultra-Low Ash – Zero-Phosphorus Oil
SAE Int. J. Fuels Lubr. November 2012 5:1240–1263; doi:10.4271/2012-01-1709
[Abstract](#) [Full Text \(PDF\)](#)

- Anja Thiar, Gareth Floweday, and Chris Meyer
A CFD Study of Fuel Evaporation and Related Thermo-fluid Dynamics in the Inlet Manifold, Port and Cylinder of the CFR Octane Engine
SAE Int. J. Fuels Lubr. November 2012 5:1264–1276; doi:10.4271/2012-01-1715
[Abstract](#) [Full Text \(PDF\)](#)

- Tak W. Chan, Eric Meloche, Joseph Kubsh, Deborah Rosenblatt, Rasto Brezny, and Greg Rideout
Evaluation of a Gasoline Particulate Filter to Reduce Particle Emissions from a Gasoline Direct Injection Vehicle
SAE Int. J. Fuels Lubr. November 2012 5:1277–1290; doi:10.4271/2012-01-1727
[Abstract](#) [Full Text \(PDF\)](#)

- Klaus Schrewe, Simon Steigert, and Peter Neumann
Partial Flow Sintered Metal Filter as Part of a Tier 4 Emission Reduction Strategy
SAE Int. J. Fuels Lubr. November 2012 5:1291–1299; doi:10.4271/2012-01-1731
[Abstract](#) [Full Text \(PDF\)](#)

- James Baustian and Leslie Wolf
Cold-Start/Warm-Up Vehicle Performance and Driveability Index for Gasolines Containing Isobutanol
SAE Int. J. Fuels Lubr. November 2012 5:1300–1309; doi:10.4271/2012-01-1741
[Abstract](#) [Full Text \(PDF\)](#)

- Yuki Bisajji, Kohei Yoshida, Mikio Inoue, Nobuyuki Takagi, and Takao Fukuma
Reaction Mechanism Analysis of Di-Air-Contributions of Hydrocarbons and Intermediates
SAE Int. J. Fuels Lubr. November 2012 5:1310–1316; doi:10.4271/2012-01-1744
[Abstract](#) [Full Text \(PDF\)](#)

- Katherine Bovee, Amanda Hyde, Shawn Midlam-Mohler, Giorgio Rizzoni, Matthew Yard, Travis Trippel, Matthew Organiscak, Andrew Garcia, Eric Gallo, Mark Hornak, An
Design of a Parallel-Series PHEV for the EcoCAR 2 Competition
SAE Int. J. Fuels Lubr. November 2012 5:1317–1344; doi:10.4271/2012-01-1762
[Abstract](#) [Full Text \(PDF\)](#)

- Michael P. Lammert, Robert L. McCormick, Petr Sindler, and Aaron Williams
Effect of B20 and Low Aromatic Diesel on Transit Bus NO_x Emissions Over Driving Cycles with a Range of Kinetic Intensity
SAE Int. J. Fuels Lubr. November 2012 5:1345–1359; doi:10.4271/2012-01-1984
[Abstract](#) [Full Text \(PDF\)](#)

- C. Scott Sluder, Brian H. West, and Keith E. Knoll
Investigating Malfunction Indicator Light Illumination Due to Increased Oxygenate Use in Gasoline
SAE Int. J. Fuels Lubr. November 2012 5:1360–1371; doi:10.4271/2012-01-2305
[Abstract](#) [Full Text \(PDF\)](#)

- Abhishek Nerkar
Optimization and Validation for Injector Nozzle Hole Diameter of a Single Cylinder Diesel Engine using GT-Power Simulation Tool
SAE Int. J. Fuels Lubr. November 2012 5:1372–1381; doi:10.4271/2012-01-2306
[Abstract](#) [Full Text \(PDF\)](#)

- Michael Mangus and Christopher Depcik
Comparison of ULSD, Used Cooking Oil Biodiesel, and JP-8 Performance and Emissions in a Single-Cylinder Compression-Ignition Engine
SAE Int. J. Fuels Lubr. November 2012 5:1382–1394; doi:10.4271/2012-32-0009
[Abstract](#) [Full Text \(PDF\)](#)

- Hideyuki Ogawa, Hari Setiapraja, Kosuke Hara, and Gen Shibata
Combustion and Emissions with Bio-alcohol and Nonesterified Vegetable Oil Blend Fuels in a Small Diesel Engine
SAE Int. J. Fuels Lubr. November 2012 5:1395–1403; doi:10.4271/2012-32-0017
[Abstract](#) [Full Text \(PDF\)](#)

- Yoshimitsu Kobashi, Hiroki Maekawa, Satoshi Kato, and Jiro Senda
Simultaneous Reduction of Pressure Rise Rate and Emissions in a Compression Ignition Engine by Use of Dual-Component Fuel Spray
SAE Int. J. Fuels Lubr. November 2012 5:1404–1413; doi:10.4271/2012-32-0031
[Abstract](#) [Full Text \(PDF\)](#)

- Mithun Kanti Roy, Nobuyuki Kawahara, Eiji Tomita, and Takashi Fujitani
High-Pressure Hydrogen Jet and Combustion Characteristics in a Direct-Injection Hydrogen Engine.
SAE Int. J. Fuels Lubr. November 2012 5:1414–1425; doi:10.4271/2011-01-2003
[Abstract](#) [Full Text \(PDF\)](#)

- Ashok Permude, Mehul Pathak, Venkatesh Kumar, and Sachleen Singh
Influence of Low Viscosity Lubricating Oils on Fuel Economy and Durability of Passenger Car Diesel Engine
SAE Int. J. Fuels Lubr. November 2012 5:1426–1435; doi:10.4271/2012-28-0010
[Abstract](#) [Full Text \(PDF\)](#)