

SAE International Journal of Fuels and Lubricants
 Volume 9, Issue 1 (April 2016)
 Table of Contents



Characterizing Gaseous Fuels for Their Knock Resistance based on the Chemical and Physical Properties of the Fuel (2015-01-9077).....	1
Sander Gersen, Martijn van Essen, Howard Levinsky, and Gerco van Dijk	
Lubrication Analysis of Floating Ring Bearings Considering Floating Ring Heat Transfer (2016-01-0485).....	14
Jiaqi Li, Jimin Ni, and Qiwei Wang	
Investigation into Mixed and Hydrodynamic Frictions of PEO Coatings and Cast Iron (2016-01-0491).....	23
Guang Wang, Xueyuan Nie, and Jimi Tjong	
Lubrication on Demand: A Novel Polymeric Bearing Coating with Oil-Filled Microcapsules (2016-01-0493).....	32
Roger Gorges, David Latham, Ian Laing, and Ronald Brock	
A Study of Reliability Evaluation of Main Bearings for Multicylinder Diesel Engines (2016-01-0494).....	41
Masashi Sadatomi and Hiroaki Ito	
Oil Transport from Scraper Ring Step to Liner at Low Engine Speeds and Effect of Dimensions of Scraper Ring Step (2016-01-0495).....	48
Tianshi Fang and Tian Tian	
Knock Resistance and Fine Particle Emissions for Several Biomass-Derived Oxygenates in a Direct-Injection Spark-Ignition Engine (2016-01-0705).....	59
Matthew A. Ratcliff, Jonathan Burton, Petr Sindler, Earl Christensen, Lisa Fouts, Gina M. Chupka, and Robert L. McCormick	
Compatibility of Dimethyl Ether (DME) and Diesel Blends with Fuel System Polymers: A Hansen Solubility Analysis Approach (2016-01-0835).....	71
Michael D. Kass and Charles Daw	
Exploring the Relationship Between Octane Sensitivity and Heat-of-Vaporization (2016-01-0836).....	80
C. Scott Sluder, James P. Szybist, Robert L. McCormick, Matthew A. Ratcliff, and Bradley T. Zigler	
Disintegration Mechanisms of Intermittent Liquid Jets (2016-01-0851).....	91
Alexander Nygaard, Mireia Altimira, Lisa Prahll Wittberg, and Laszlo Fuchs	
Assessing the Importance of Radiative Heat Transfer for ECN Spray A Using the Transported PDF Method (2016-01-0857).....	100
Muhammad Aqib Chishty, Michele Bolla, Evatt Hawkes, Yuanjiang Pei, and Sanghoon Kook	
Experimental and Numerical Analyses of Liquid and Spray Penetration under Heavy-Duty Diesel Engine Conditions (2016-01-0861).....	108
Noud Maes, Nico Dam, Bart Somers, Tommaso Lucchini, Gianluca D'Errico, and Gilles Hardy	
Characterization of Internal Flow and Spray Behaviors of Hole-Type Nozzle under Tiny and Normal Injection Quantity Conditions for Diesel Engine (2016-01-0862).....	125
PengBo Dong, Keiya Nishida, Takuya Inaba, and Youichi Ogata	
Characteristics of Formaldehyde (CH₂O) Formation in Dimethyl Ether (DME) Spray Combustion Using PLIF Imaging (2016-01-0864).....	138
Khanh Cung, Xiucheng Zhu, Ahmed Abdul Moiz, Seong-Young Lee, and William De Ojeda	