

Inhaltsverzeichnis

The role of synthetic fuels in an integrated energy system

Dr. Achim Schaadt, Robert Szolak, Prof. Christopher Hebling,
Florian Rümmele, Max Julius Hadrich, Mohamed Ouda und
Bernd Danckert

DEUTZ engine portfolio below 56 kW to meet EU Stage V NRMM emission standard

Christian Opitz, Christoph Klein, Hartmut Sieverding und Heiner Bülte

Compact and powerful: the new 9-liter diesel engine from MAN for off-highway applications

Tobias Herrmann, Vanessa Simon, Markus Fuchs, Marc Winterhoff und
Reinhard Lämmermann

CatVap® – a new heating measure for exhaust aftertreatment system

Robert Szolak, Bernd Danckert, Dr. Alexander Susdorf, Paul Beutel,
Katharina Pautsch, Christian Ewert, Florian Rümmele,
Anand Kakadiya und Dr. Achim Schaadt

A novel low-cost aftertreatment solution for lean-burn gas engines

Matthew Keenan, Jacques Nicole und Ben Rogers

CFD simulation of particle deposition in exhaust gas treatment systems

Dorian Holtz, Conrad Gierow, Robert Bank, Dirk Kadau und
Flavio Soppelsa

Variably honed cylinder liners, iron-based cast pistons and variably coated piston rings as PCU system for friction loss and TCO reduction

Dr.-Ing. Daniel Hrdina, Dipl.-Ing. Marco Maurizi, Bartek Lemm,

Dipl.-Ing. Hakan Kahraman und Dipl.-Ing. Guilherme Soares de Faria

Parameter study of the appearance and allocation of small oil aerosol particles at the piston, piston ring and cylinder liner surfaces in the engine blow-by and the evaluation of countermeasures

Magnus Lukas Lorenz und Prof. Dr. Thomas Koch

Application of virtual sensors for stress-related design and operation-specific lifetime prognosis

Martin Diesch, Dr.-Ing. Thomas Bubolz, Dr.-Ing. Martin Dazer,

Dipl.-Ing. Kevin Lucan und Prof. Bernd Bertsche

Model-based injector deposit detection

Michael Hinrichs, Prof. Dr. Rolf Isermann und Prof. Dr. Peter Pickel

Potential and challenges of multiple injection strategies for maritime fuels in large engines

Benjamin Stengel, Ibrahim Najar, Fabian Pinkert, Egon Hassel und

Bert Buchholz

The recuperated split-cycle engine as a sustainable heavy-duty solution

Nick Owen, Prof. Robert Morgan und Prof. Andrew Atkins

Potential of low pressure EGR in combination with electric turbocharging for heavy-duty applications

Harsh Sankhla, Bartosch Jagodzinski, Sascha Schönfeld,

Markus Schönen, Martin Müther und Peter Heuser

Modern hybrid propulsion systems for rail and marine applications: environmental and customer benefits through optimized system integration of proven diesel technology with latest electrical innovation

Martin Urban

Achieving the proposed EU heavy-duty truck 2030 CO₂ legislation

Ahmed Meza, Andy Skipton-Carter, Andrew Auld, Nicholas Hasselbach,

Önder Bulut, Pascal Revereault und William Missions

Reducing CO₂ emissions in heavy-duty spark ignited engines for electric power using alternative fuels

Paul S. Wang, Niko Landin, Michael Bardell, Patrick Seiler, Jas Singh, David Ginter und David T. Montgomery

Is liquefied methane the heavy-duty fuel of the future?

Max Kofod, Fenna Sleeswijk, Paul Bosma, Maurice van Erp und Bruno Goncalves

Tagungsbericht

Marc Ziegler