



Press Release

December 2005

CIMAC CIRCLE 2005 at Marintec, Shanghai

Under the topic '**HFO operation – its impact on engine reliability and emissions**' CIMAC has held its first CIMAC CIRCLE in Asia. As usual the event was organised as a panel discussion with all panelists giving a short presentation to be followed by a discussion with the audience. The panel was chaired by Karl Wojcik, AVL List GmbH, Austria, and consisted of high-ranking experts from the industry:

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Ole Christensen, A.P. Møller, Denmark
Klaus Heim, Wärtsilä Switzerland Ltd., Switzerland
Keld Mortensen, MAN B&W Diesel A/S, Denmark
Dr. Ionnais Vlaskos, ABB Turbo Systems Ltd., Switzerland
Dr. Keijiro Tayama, JICEF, Japan

The issue of controlling air pollution from ships is coming more and more into the focus of international legislators. The big challenge will be to comply with the increasing demand for reduced emissions in heavy fuel operation.

Seagoing reciprocating engine technology has improved dramatically over the past decades, driven by economic and environmental pressures for power density improvements (more output per unit of engine displacement), increased fuel efficiency and reduced emissions. Computer systems have greatly advanced reciprocating engine design and control, accelerating advanced engine designs and making possible more precise control and diagnostic monitoring of the engine process. Engine manufacturers and worldwide engine R&D firms continue to drive advanced engine technology of challenges to combine reliability, low cost, high efficiency and clean burn characteristics.

In his presentation each panelist concentrated on a special focus: Mr. Christensen on 'How is the owner/user facing the challenge of low emission at HFO operation?', Mr. Heim on 'The emissions/fuel economy trade off, challenges and solutions', Mr. Mortensen on 'Is the reliability in HFO operation impacted by the future emission rules? The answer of the engine OEM', Dr. Tayama on 'When is after treatment going to be used?'



Issues and solutions' and Mr. Vlaskos on 'How is the turbocharger technology supporting the low emission requirements for HFO engines?'

Pictures of the event are available at

http://www.cimac.com/congress_events/Index1-circle2005.htm

Hanspeter Zingg
CIMAC Vice-President Communication