

Large Bore Engine PISTON RING NEWS

Special Issue September I/2014



Dear business partner,

One of the most important events in the maritime industry is coming closer:
Trade Fair SMM 2014.

As a key player of this important business sector, Federal-Mogul – with our GOETZE® and DAROS® brand – will be part of the world's leading fair in the industry. We look forward to coming together with our business partners – to talk about current developments and future business opportunities.

With our special SMM Newsletter edition, we would like to give you an outlook on movements within our Large Bore Engine Product portfolio.

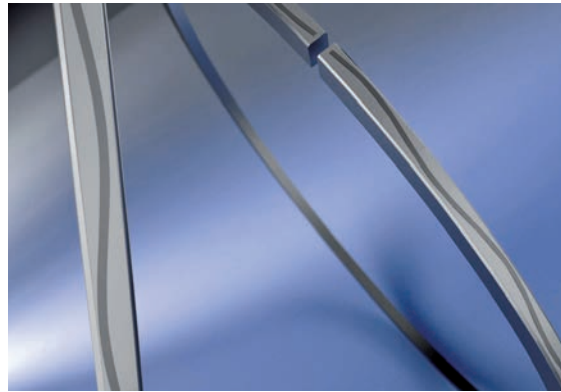
This Newsletter informs you about our new eWave™ technology which revolutionizes lube oil control in Large Bore Engines. Next week there will be a further Newsletter which will give you an overview on our new structured chrome coating.

We hope that with this SMM edition, we would direct your attention to interesting topics you might like to discuss with us? Join us! From 9-12 September in Hamburg, Hall A3, Stand 205!

Look forward to seeing you
Håkan Skutberg
Federal-Mogul Powertrain
Director and General Manager,
Large Bore Engine

New eWave™ technology by Federal-Mogul revolutionizes lube oil control in Large Bore Engines

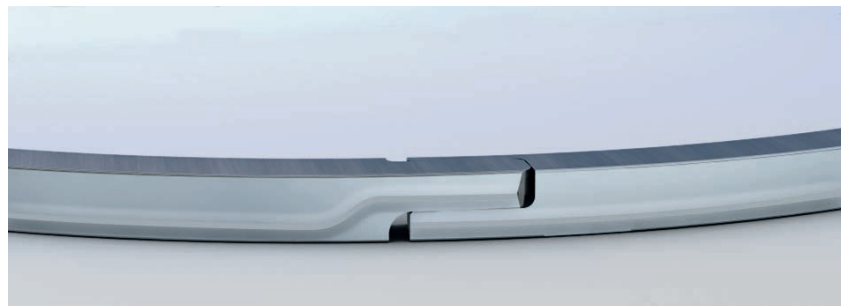
The latest development of Federal-Mogul shows how an optimal circumferential oil distribution with a homogenous oil film on the liner surface can be achieved. The eWave solution guarantees perfect oil control for 2-stroke Large Bore Engines.




Visit us at SMM Exhibition in Hamburg to discover Federal-Mogul's ultimate development. Convince yourself how the eWaves technology can prevent from excessive wear and scuffing.

Discover how you can reduce the oil feeding for your engine up to 25%! Learn how Federal-Mogul Prime helps you to optimize the piston ring design to your individual requirements depending on conditions of use and engine layout.

We are looking forward to seeing you in Hamburg from September 9th until 12th. Visit us at stand 205 in hall A3.



Read more about
eWave solutions on page 2. 

eit.federalmogul.com

eWave Solution for 2-stroke Large Bore Engines

For the efficiency of 2-stroke vessel engines the piston ring system is more important than ever. Especially the condition of slow steaming in combination with long strokes creates high costs for lube oil, additives and maintenance through increased wear and system failures arising from the poor lube-oil distribution on the circumference of the liner wall. Usually the answer to the challenge is the very costly increase of the lube oil feed rate.



The revolutionary new Federal-Mogul eWave solution assures an optimized use of lube oil over the whole liner surface.

With eWave Federal-Mogul succeeded in designing a ring solution which leads to a controlled oil flow in circumferential direction during the stroke of the piston. Only a few strokes are necessary to disperse the oil to all areas and create a homogeneous layer which prevents the system from a hydrodynamic break down.

eWave Solution for 4-stroke Large Bore Engines

Reduced oil consumption, the total height of the piston system and reduced friction are today's main drivers in developing highly efficient Large Bore Engines.

Federal-Mogul's latest development is focusing on a piston ring pack system which is able to optimize all three influences. Carefully designed and fine-tuned ring packages are destined to make a best possible use of the necessary lube oil.

Perfect fit with Federal-Mogul Prime3D

Federal-Mogul Prime helps you to optimize the piston ring design to your individual requirements depending on conditions of use and engine layout. Learn more about F-M Prime3D. A demonstration available at our stand on the SMM will show you how to freely adjust eWave to any engine.

