MAN Energy Solutions

Dear Sir or Madam

We have updated essential guidelines and acceptance criteria in our instruction manuals for evaluation of:

- 1. Piston ring coating peeling-off and coating condition
- 2. Deposit build-up on piston ring lands.

#### **Piston ring coatings**

- 1. Cermet coating has been introduced to reduce piston ring wear and to increase scuffing resistance. The cermet coating is a piston ring coating with the same lifetime as the piston ring.
- 2. Aluminum-bronze coating (alu-coat) is applied on all cermet-sprayed piston rings to facilitate the running-in procedure. This coating will typically wear off within 1,000–3,000 running hours, depending on fuel type and load conditions.

## Guidelines and acceptance criteria

See the updated guidelines and criteria in the instruction manual, description 2245-0100-0005, Cylinder condition, sections:

2.3.10 Alu-coat and cermet-coating peeling-off

Acceptance criteria for coating peeling-off.

The section contains guidelines and examples to support the correct estimation of the degree of peeling-off and the coating condition.

2.3.12 Deposits on ring lands

Examples of piston ring land deposits and condition combined with required actions.

<u>2.3.13 Cermet-condition overview</u> Examples of different ring conditions and the required actions.

You can download the updated chapter here.

Yours faithfully

Tihad June.

Mikael C Jensen Vice President, Engineering

Stig B Jakobsen Senior Manager, Operation

# Action code: WHEN CONVENIENT

## Updated evaluation guidelines

Piston ring coating and deposit build-up on piston ring lands

SL2022-725/JAP June 2022

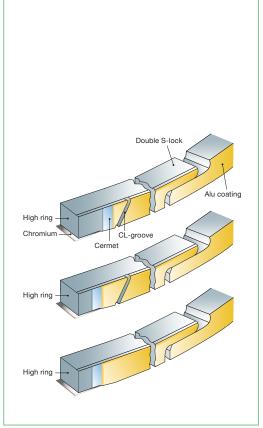
#### Concerns

Owners and operators of MAN B&W two-stroke marine diesel engines. Type: MC/MC-C, ME/ME-C and ME-B

### Summary

Update of guidelines and essential acceptance criteria in the instruction manual for evaluation of: piston ring coating peeling-off, coating condition, and deposit build-up on piston ring lands.

.....



Head office (& po. address) MAN Energy Solutions Teglholmsgade 41 2450 Copenhagen SV Denmark Phone: +45 33 85 11 00 Fax: +45 33 85 10 30 info-cph@man-es.com www.man-es.com

PrimeServ Teglholmsgade 41 2450 Copenhagen SV Denmark Phone: +45 33 85 11 00 Fax: +45 33 85 10 49 PrimeServ-cph@man-es.com Production Teglholmsgade 35 2450 Copenhagen SV Denmark Phone: +45 33 85 11 00 Fax: +45 33 85 10 17 manufacturing-dk@man-es.com

Forwarding & Receiving Teglholmsgade 35 2450 Copenhagen SV Denmark Phone: +45 33 85 11 00 Fax: +45 33 85 10 16 shipping-cph@man-es.com

#### MAN Energy Solutions

Branch of MAN Energy Solutions SE, Germany CVR No.: 31611792 Head office: Teglholmsgade 41 2450 Copenhagen SV, Denmark German Reg.No.: HRB 22056 Amtsgericht Augsburg