

Action code: WHEN CONVENIENT

Load-up program

Update of load-up recommendations in SL09-503/JAP

SL2020-705/JAP
October 2020

Concerns

Owners and operators of MAN B&W two-stroke marine diesel engines.
Type: All MAN B&W ME-C, ME-C-GI/E- and ME-C-LGIM/P

Summary

New load-up recommendations for marine engines.

Relevant Service Letters:
SL09-503/JAP

Dear Sir or Madam

We have updated our load-up program for marine engines according to Tables 1 and 2 on page 2.

For engines with fixed propeller, the settings are delivered from MAN Energy Solutions in the (SPAF) file for all new engines.

For engines with controllable pitch propeller, the load-up program must be handled by the Remote Control System.

If you have any questions or inquiries regarding this Service Letter, contact our Operation Department at Operation2S@man-es.com.

Yours faithfully



Mikael C Jensen
Vice President, Engineering



Stig B Jakobsen
Senior Manager, Operation



Head office (& po. address)
MAN Energy Solutions
Tegholmegade 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
Tegholmegade 41
2450 Copenhagen SV
Denmark
Phone: +45 33 85 11 00
Fax: +45 33 85 10 49
PrimeServ-cph@man-es.com

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

Forwarding & Receiving
Tegholmegade 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: Tegholmegade 41
2450 Copenhagen SV, Denmark
German Reg.No.: HRB 22056
Amtsgericht Augsburg

Introduction

The engine load-up program prevents mechanical and thermal overload during load up and ensures sufficient time for the auxiliary system to adapt, by controlling the load-up rate.

The recommended load-up program depends on the vessel’s propeller type: Fixed Pitch Propeller (FPP) or Controllable Pitch Propeller (CPP).

We have updated our load-up program for marine engines according to Tables 1 and 2.

Requirements

Mk 9+ engines ≥80 bore with fixed pitch propeller, 150-minute load-up program

Speed intervals, % *SMCR speed (rpm)	Time (minutes)
80 → 90	60
90 → 100	90

Mk 8 and older engines ≥80 bore with fixed pitch propeller, 90-minute load-up program

Speed intervals, % *SMCR speed (rpm)	Time (minutes)
80 → 90	30
90 → 100	60

Mk 9+ engines ≥80 bore with controllable pitch propeller, 150-minute load-up program

Load intervals, % *SMCR power	Time (minutes)
50 → 75	60
75 → 100	90

Table 1: Load-up requirements (*SMCR = Specific Maximum Continuous Rating)

However, if the 90-minute load-up program for Mk9+ engines with a bore size of 80 cm or larger is desirable on sea trial, the engine builder can modify the parameters if these are reverted to the standard 150-minute load-up program before vessel delivery, and that the index rate limiter (IRL) function is active during sea trial.

Recommendations and default settings

All other fixed pitch engines, 90-minute load-up program

Speed intervals, % *SMCR speed (rpm)	Time (minutes)
80 → 90	30
90 → 100	60

All other engines with Controllable Pitch Propeller, 90-minute load-up program

Load intervals, % *SMCR power	Time (minutes)
50 → 75	30
75 → 100	60

Table 2: Load-up recommendations and default settings (*SMCR = Specific Maximum Continuous Rating)