Operating Instructions for MAN Marine Diesel engines
Bedienungsanleitung für MAN-Schiffsdieselmotoren
Instrucciones de servicio para Motores Diesel MAN para barcos
Instruction de service pour Moteurs Diesel marins MAN
Norme di servicio per Motori Diesel MAN per applicationi navali

D 2876 LE 401 / 402 / 404 / 405



Operating Instructions – MAN Marine Diesel Engines



Preface



Dear Customer,

these Operating Instructions are intended to familiarize you with your new MAN Diesel engine and how it operates.

This manual contains information on "Fuels, Lubricants and Coolants for MAN Diesel Enginess".

This manual is supplemented by the publication "Service record book".



Note:

All three publications belong to the engine and must always be kept ready to hand near the engine in the engine room.

Comply in full with instructions relating to operation, prevention of accidents and environmental protection.

MAN Diesel engines are developed and manufactured in line with the latest state of the art. However, trouble-free operation and high performance can only be achieved if the specified maintenance intervals are observed and only approved fuels, lubricants and coolants are used.



Note:

Only use fuel, coolants and lubricants in accordance with MAN's regulations otherwise the manufacturer's warranty will not apply!

For basic information on the fuels see the publication "Fuels, Lubricants and Coolants for MAN Diesel Engines".

You can find the approved products in the internet under:

-http://www.man-mn.com/ → Products & Solutions → E-Business-

It is imperative and in your own interest to entrust your MAN Local Service Centre with the removal of any disturbances and with the performance of checking, setting, and repair work.

Yours faithfully, MAN Nutzfahrzeuge Aktiengesellschaft Werk Nürnberg

Subject to change to keep abreast with technological progress.

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Instructions

Important instructions which concern technical safety and protection of persons are emphasised as shown below.



Danger:

This refers to working and operating procedures which must be complied with in order to rule out the risk to persons.



Caution:

This refers to working and operating procedures which must be complied with in order to prevent damage to or destruction of material.



Note:

Explanations useful for understanding the working or operating procedure to be performed.

Fitting flat seals / gaskets

Flat seals / gaskets are often inserted with sealing agents or adhesives to make fitting them easier or to achieve better sealing. Flat seals may slip in operation due to the "sewing-machine" effect, in particular if they are used between parts with different rates of linear expansion under heat (e.g. aluminium and cast iron), and leaks may then occur.

Example:

the cap of the front crankshaft seal. If a sealing agent or an adhesive is used here the flat seal will move inwards in the course of time as a result of the different expansion rates of the materials. Oil will be lost, for which the shaft seal may be thought to be responsible.

Flat seals / gaskets can be fitted properly only if the following points are observed:

- Use only genuine MAN seals / gaskets
- The sealing faces must be undamaged and clean
- Do not use any sealing agent or adhesive as an aid to fitting the seals a little grease can be used if necessary so that the seal will stick to the part to be fitted
- Tighten bolts evenly to the specified torque

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Full download: http://manualplace.com/download/man-marine-diesel-engines-d-2876-le-401-402-404-405-operating-instruction

Declaration

In accordance with Article 4, paragraph 2, in conjunction with Appendix II, section B, of Directive 89/392/EEC, version 93/44/EEC

MAN Nutzfahrzeuge Aktiengesellschaft,

hereby declares that the engine described below is destined for installation in a machine as defined in the FC directive on machines.

Engine model:

Design:

For data see original declaration

Engine number:

If required this declaration is enclosed with the delivery note.

Rating / speed:



Note:

The manufacturer of the complete ready-to-use machine in which this engine is to be installed must take the further action necessary in the context of indirect safety-related engineering and provision of instructions to ensure that the ready-to-use machine complies with the requirements of the EC directive on machines. The engine must not be put into operation until the complete machine satisfies the conditions laid down in the EC directive on machines 89/392/EEC, most recently amended by 93/44/EEC, or the latest amendment of said directive.

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