



Type Approval Certificate

This is to certify that the undernoted products have been tested with satisfactory results in accordance with the relevant requirements of the Lloyd's Register Type Approval System.

Manufacturer	Vetus B.V.
Address	Fokkerstraat 571, Schiedam, 3125 BD, Netherlands
Type	Marine Diesel Exhaust Hose and Components
Description	Marine diesel exhaust hose consisting of black EPDM rubber tube, with or without steel black helix and synthetic textile reinforcement, and black EPDM cover, with end fittings.
Trade Name	SAE J 2006 R1 and R2
Application	Short joining lengths of marine exhaust hose
Specified Standard	Lloyd's Register's Rules and Regulations for the Classification of Ships Lloyd's Register's Rules and Regulations for the Classification of Special Service Craft SAE J 2006:1995
Ratings	Diameter (DN): 13 to 400 Max. Working pressure (bar): 4.5 Temperature range (°C): ≤ 120

71 Fenchurch Street, London, EC3M 4BS, United Kingdom

M.H.M. Rila

Team Lead - Environmental Discipline to
Lloyd's Register EMEA
A member of the Lloyd's Register group

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- Other Conditions**
1. Exhaust hoses are to be selected and installed in accordance with the manufacturer's instructions and applicable Lloyd's Register's Rules and Regulations.
 2. Service length should be as short as practicable, erosion/corrosion resistant shut off flaps or other devices are to be fitted on the hull side shell or pipe end and acceptable arrangements made to prevent water flooding the space.
 3. The hose assemblies are not to be subject to torsional deflection under normal operating condition.
 4. Where it is intended to use flexible exhaust hoses in exhaust piping systems on ship, craft or yachts classed or intended to be classed by LR, the arrangements are to be submitted for approval.
 5. The following details are to be permanently marked at the suitable place:
 - Manufacturer's name or trademark.
 - Designation type reference.
 - Nominal diameter.
 - Pressure rating.
 - Temperature range.

This certificate is not valid for equipment, the design, ratings or operating parameters of which have been varied from the specimen tested. The manufacturer should notify Lloyd's Register EMEA of any modification or changes to the equipment in order to obtain a valid Certificate.

The Design Appraisal Document No. LR23357941TA and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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