Certificate No: LR21124871TA
Issue Date: 24/03/2021
Expiry Date: 25/03/2026

Type Approval Certificate

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

Manufacturer	**Tubi Thor SpA**
Address	Via Caduti per la Patria 83, Lesmo MB, 20855, Italy
Place of Production	Thor Sud S.p.A. Via M. Bellisario, 54, San Salvo - CH -, 66050, Italy
Place of Production	Tubi Thor SpA Via Caduti per la Patria 83, Lesmo MB, 20855, Italy
Type	Marine Diesel Exhaust Hose And Components
Description	Marine diesel exhaust hose, comprising of synthetic NBR black rubber inner tube, embedded steel wire helix, high tensile synthetic cord reinforcement and black CR rubber cover.
Trade Name	SCAMO / SP CAJ
Application	Marine diesel exhaust hose for Special Service Craft.
Specified Standard	ISO 13363: 2016 SAE J2006: 2013

Downloaded Copy

Mohamed Mohamed Rila

Senior Specialist to Lloyd's Register EMEA
A member of the Lloyd's Register group

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

Lloyd's Register Group Limited, its affiliates and subsidiaries and their respective officers, employees or agents are, individually and collectively, referred to in this clause as 'Lloyd's Register'. Lloyd's Register assumes no responsibility and shall not be liable to any person for any loss, damage or expense caused by reliance on the information or advice in this document or howsoever provided, unless that person has signed a contract with the relevant Lloyd's Register entity for the provision of this information or advice and in that case any responsibility or liability is exclusively on the terms and conditions set out in that contract.

Certificate No: LR21124871TA
Issue Date: 24/03/2021
Expiry Date: 25/03/2026

Type Approval Certificate

Ratings

Internal diameter (mm): 16 to 305
Max. working pressure (bar): 3
Temperature range (°C): -30 to +100

Other Conditions

1. Exhaust components are to be selected and installed in accordance with the manufacturer's instructions and recommendations and Lloyd's Register's Rules and Regulations for the Classification of Special Service Craft.
2. Hoses are to be secured by two stainless steel hose clips at each end and service length should be as short as practicable,
3. 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. Where it is intended to use flexible exhaust hoses in exhaust piping systems on craft or yachts Classed or intended to be classed by LR, the arrangements are to be submitted for approval.
4. The following details are to be permanently marked:
   - 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.

Previous Version: 96/00127 (E6)

The Design Appraisal Document LR21124871DA and its supplementary Type Approval Terms and Conditions form part of this Certificate.

Downloaded Copy

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

Lloyd's Register Group Limited, its affiliates and subsidiaries and their respective officers, employees or agents are, individually and collectively, referred to in this clause as 'Lloyd's Register'. Lloyd's Register assumes no responsibility and shall not be liable to any person for any loss, damage or expense caused by reliance on the information or advice in this document or howsoever provided, unless that person has signed a contract with the relevant Lloyd's Register entity for the provision of this information or advice and in that case any responsibility or liability is exclusively on the terms and conditions set out in that contract.