Certificate No: LR2010157TA
Issue Date: 03/08/2020
Expiry Date: 02/08/2025

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	**Trident Rubber Inc**
Address	585 Plum Run Road, Canonsburg, PA, 15317, United States
Type	Marine Diesel Exhaust Hose And Components
Description	Blue VHT silicone rubber marine diesel exhaust hose
Trade Name	TRIDENT MARINE
Application	Marine exhaust hose for use in wet exhaust systems
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. ISO 13363:2004. SAE J 2006:2003.
Ratings	Series 202V: Soft wall marine diesel exhaust hose consisting of a red and blue smooth silicone rubber liner, high tensile multi-ply polyester reinforcement, and a glossy blue & red silicone rubber cover. Diameter (inch): 1 to 16 Classification: (to ISO 13363): Type 1, Class B (to SAE J2006): R1 (Soft wall) Series 252V:

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Mohamed Mohamed Rila

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

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Hard wall marine diesel exhaust hose consisting of a red and blue smooth silicone rubber liner, high tensile multi-ply polyester reinforcement, steel wire reinforcement, and a glossy blue and red silicone rubber cover.

Diameter (inch):	¾ to 8	
Classification:	(to ISO 13363):	Type 2, Class B
	(to SAE J2006):	R2 (Hard wall)

Other Conditions

1. Exhaust hoses are to be selected and installed in accordance with the manufacturer's instructions and recommendations 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 hoses are approved for use as exhaust gas hoses for internal combustion engines, and the exhaust gas shall be water cooled.
4. The hose assemblies are not to be subject to torsional deflection under normal operating conditions.
5. The following details are to be permanently marked:

- Manufacturer's name.
- Designation type reference.
- Nominal diameter.

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. LR2010157TA and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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