Certificate No: LR2632693TA
Issue Date: 14/07/2025
Expiry Date: 13/07/2030

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	**Dunlop Hiflex Oy**
Address	Jasperintie 320, Pirkkala, 33960, Finland
Place of Production	Dunlop Hiflex Oy Jasperintie 320, Pirkkala, 33960, Finland
Place of Production	Dunlop Hiflex Oy Orikedonkatu 8, Turku, 20380, Finland
Type	Flexible Pipe Couplings And Hoses
Description	Fuel hose for fuel pipe consisting of internal Layer 1 (Commander 1SN EN853: synthetic rubber hose with one high tensile steel braid reinforcement), Layer 2 (Alfagomma 142AK: synthetic rubber hose with two high tensile steel braid reinforcements) and outer Layer 3 (Pyrojacket Firesleeve: Silicon coated fibre glass fire sleeve) with one loose and one fixed steel flange end and small size connection for inter-tubular space leak control and drainage.
Trade Name	Smart Fuel Hose
Application	For LFO and HFO piping systems to engines on ships classed or intended for Classification with Lloyd's Register. Restrictions: For applications where hoses are frequently flexed in service.

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Torsten Schroeder

Engineering - Piping/ Decarbonisation - Senior Specialist to Lloyd's Register EMEA
A member of the Lloyd's Register group

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

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Specified Standard	Lloyd's Register Rules and Regulations for the Classification of Ships, 2025
Ratings	Size: DN 15, DN 25, DN 32, DN 40, DN 50 Working pressure : 8 – 16 bar Max. operating temperature: +150°C
Other Conditions	valid QAM 146 in place including sites Dunlop Hiflex Pirkkala and Turku

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: LR2004346TA(-01)

The Design Appraisal Document TSO/25-043361, (previous HTS/ENS 41123-20, Issue No. 1) and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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