Certificate No: LR25241158LCS
Issue Date: 31/08/2025
Expiry Date: 30/08/2028

Certificate of General Approval

This is to certify that the undernoted Loading Computer Software has been examined in accordance with the relevant Classification Rules and Procedures, and the applicable Statutory Regulations and is approved for the functions stated below and detailed on the Supplement attached hereto.

Company	**NAPA LTD**
Address	HTC Helsinki, Pinta, Tammasaarenkatu 3, Helsinki, 00180, Finland
Software Name	NAPA Stability
Software ID/Version Number	STB-A
Minimum Hardware Specifications	Second generation Intel core i5 processor or better, 8GB RAM, 120GB solid state drive, at least 1 network interface
Operating System	Microsoft Windows
User's Operations Manual ID	--
Approved Functions	☒ Strength ☒ IACS UR L 5 Type 1 - Intact Stability ☒ IACS UR L 5 Type 2 - Damage Stability (Limiting Curves) ☐ IACS UR L 5 Type 3 - Damage Stability (Direct Calculaltions) ☒ IACS UR L 5 Type 4 - Damage Stability (Safe Return to Port)
Strength Design Appraisal Document	UKITSO/HULL/46225619
Stability Design Appraisal Document	PTS/STB/PRJ11100363019

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Colin Clifford-Smith

Ship Structure - Principal 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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Supplement

Strength Features

Bulkhead Shear Force Correction Factors – Ship rules	No
Bulkhead Shear Force Correction Factors - CSR Before 1st July 2015	No
Bulkhead Shear Force Correction Factors - CSR From 1st July 2015	No
Permissible Cargo Torque	No
Strength With Any Single Hold Flooded (URS17)	No
Local Double Bottom Strength (URS1A)	No
Permissible Shear Forces and Bending moments	Single & Multiple

Intact Stability Features

Hydrostatic Data	3D Hullform
Tank capacity Data	3D Geometry
Cross curve Data	3D Hullform
Down-flooding Data	3D Points
General Criteria Check	Intact Stability Code, as amended - MSC267(85)
Weather Criteria	Intact Stability Code, as amended - MSC267(85)
Windage Data	Direct area calculation
Timber Criteria Check	No
Timber Cargo Water Absorption	No
Ice Accumulation	Deadweight item
Inland Waterways (ADN) (1)	No
Free Surface Moment calculation	Directly calculated from tank geometry taking heel into account
GZ Curve Calculation	Corrected by the maximum upright inertia distributed by sine; Corrected by the real shifting moment
Free Surface Select Options for Each Tank	Free surface moment at the actual filling level
Grain Stability	No
Limiting KG/GM Curves	Two parameters (limit versus trimmed draught or displacement)

Damage Stability Features

Limiting KG/GM Curves	Two parameters (limit versus trimmed draught or displacement)
Direct Calculations	Pre-programmed damage cases; Intact reference displacement (2)

(1) Type C Tank Ships, Tank Width > 0.7B
(2) Applicable to Type 3 functionality only

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Operational Information for Safe Return to Port	Yes, excluding Directive 2003/25 EC (Stockholm Agreement)

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