Certificate No: LR26346328LCS
Issue Date: 24/07/2026
Expiry Date: 23/07/2029

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	**Herbert-ABS Software Solutions, LLC**
Address	1040 Marina Village Parkway, Suite 200, Alameda, CA, 94501, United States
Software Name	CargoMax
Software ID/Version Number	2.1
Minimum Hardware Specifications	4 GB RAM, 500 MB Hard Disk, 1280 x 1024 SXGA 19'' Monitor, UPS Uninterruptible Power Supply) system
Operating System	Windows 7 Service Pack 2 or later (including Windows 8, 8.1, 10, & 11)
User's Operations Manual ID	LR26346328LCS
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	-
Stability Design Appraisal Document	-

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Des Fong

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

Intact Stability Features

Hydrostatic Data	Trimmed (pre-programmed)
Tank capacity Data	Even keel (pre-programmed)
Cross curve Data	Trimmed (pre-programmed)
Down-flooding Data	Trimmed angles (pre-programmed)
General Criteria Check	Intact Stability Code, as amended - MSC267(85)
Weather Criteria	Intact Stability Code, as amended - MSC267(85)
Windage Data	Single table
Timber Criteria Check	No
Timber Cargo Water Absorption	No
Ice Accumulation	No
Inland Waterways (ADN) (1)	No
Free Surface Moment calculation	Maximum values - Even keel (pre-programmed); Calibrated values - Even keel (pre-programmed)
GZ Curve Calculation	Corrected by the maximum upright inertia for all heeling angles
Free Surface Select Options for Each Tank	Maximum free surface moment; Free surface moment at the actual filling level
Grain Stability	Trimmed and partly filled data (pre-programmed); Trimmed, untrimmed and partly filled data (pre-programmed); Allowable grain heeling moments check (pre-programmed)
Limiting KG/GM Curves	Two parameters (limit versus trimmed draught or displacement)

Damage Stability Features

Limiting KG/GM Curves	Multiple parameters (see Design Appraisal Document)

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

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Direct Calculations	Pre-programmed damage cases; Five intermediate flooding stages (2); Intact minus outflow reference displacement (2)
Operational Information for Safe Return to Port	No

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