Certificate No: LR26427993LCS
Issue Date: 10/09/2026
Expiry Date: 09/09/2029

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	**XTRONICA SHANGHAI CO.,LTD.**
Address	Room 102 Building 4 No, 1228 Jinhu Road, Pu Dong, Shanghai, 201206, China
Software Name	CLOAD
Software ID/Version Number	6.1.1
Minimum Hardware Specifications	3.7 GHz or faster Pentium, 4 GB of RAM, 1 GB Free Hard Disk Space, 512 MB Graphics Card & SVGA Monitor
Operating System	Windows 7 or above
User's Operations Manual ID	CLI/21/315
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	TSO-26-05314-S-01

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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	Single
Strength With Any Single Hold Flooded (URS17)	Yes
Local Double Bottom Strength (URS1A)	Yes
Permissible Shear Forces and Bending moments	Single

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	No
Inland Waterways (ADN) (1)	No
Free Surface Moment calculation	Directly calculated from tank geometry taking heel into account; Directly calculated from tank geometry taking heel and trim into account
GZ Curve Calculation	Corrected by the maximum upright inertia for all heeling angles; Corrected by the actual upright inertia distributed by sine
Free Surface Select Options for Each Tank	No
Grain Stability	Trimmed and partly filled data (pre-programmed); Trimmed, untrimmed and partly filled data (pre-programmed); Allowable grain heeling moments check (pre-programmed); Grain stability criteria direct calculation and check; Trimmed, untrimmed, partly filled data and partly filled hold in way of the hatch opening ends untrimmed (pre-programmed data)

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

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Supplement

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; Five intermediate flooding stages (2); Intact minus outflow reference displacement (2)
Operational Information for Safe Return to Port	No

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