Certificate of Approval

This certificate is issued to: Kockumation A/S

Østre Havnevej 2, 3.
DK-5700 Svendborg
Denmark

Program Name: EASEACON

Program ID/Version Number: 5.66

Minimum Hardware Specification: Pentium processor or higher and 2 GB RAM or more. 1920 x 1080 monitor resolution.

Operating System: Windows 10 or later

Strength Design Appraisal Document: MTES/HULL/21179917

Stability Design Appraisal Document: LDSS/STAT SR#1-14759352

User's Operations Manual ID: --

This is to certify that the above Strength and Intact (Type 1) & Damage (Type 2) Stability calculation program has been examined in accordance with the relevant Classification Rules and the requirements of Statutory Regulations and is approved for the functions stated on the Supplement attached hereto.

Conditions of Certification:

Approval of test conditions will be required together with an installation test for each specific ship.

The supplier is responsible for ensuring that any computer software and hardware is capable of handling date changes without loss of performance or functionality. The capability of the computer software and hardware to handle date changes without loss of performance or functionality has not been demonstrated to Lloyd's Register EMEA.

Colin Clifford-Smith
Global Technical Support Office
Lloyd's Register EMEA

LR031.2022

C. Clifford-Smith
Surveyor to Lloyd's Register EMEA
A Subsidiary Of Lloyd's Register Group Limited

		INTACT	DAMAGED
Program Name :	EASEACON		
Program Version :	5.66		

	INTACT	DAMAGED
<u>Strength Features:</u>	* Indicates Not Applicable	
Shear Forces and Bending Moments	Yes	N/A *
Multiple Shear Forces and Bending Moments	No	N/A *
Bulkhead Shear Force Correction Factors, Ship Rules	Yes	N/A *
Bulkhead Shear Force Correction Factors, CSR Up To June 2015	Yes	N/A *
Bulkhead Shear Force Correction Factors, CSR From July 2015	No	N/A *
Cargo Torque	Yes	N/A *
Multiple Cargo Torque	No	N/A *
Longitudinal Strength In Flooded Hold Conditions	Yes	N/A *
Local Double Bottom Strength	Yes	N/A *
<u>Stability Features:</u>		
IACS URL5 Compliant for the approved stability features only	Type 1	Type 2
Program Type:		
Hydrostatic data- Pre-programmed Even Keel, Trimmed or 3D Hullform	T	None
Cross curve data- Pre-programmed Even Keel, Trimmed or 3D Hullform	T	None
Tank capacity data- Even keel, Trimmed, 3D hullform or 3DI (3D ignoring trim)	E	None
Downflooding Data- Even keel angles, Trimmed: angles or 3D points	TA	None
Intact Stability:		
A749(18) General Criteria check (A167 para. 3.1.2)	Yes	N/A *
A749(18) Timber Criteria check (A206 para. 4.1.3)	No	N/A *
Automatic Timber Cargo Water Absorption Calculation	No	N/A *
A749(18) Weather Criteria (A562 para. 3.2.2.)	Yes	N/A *
Windage Data- Single Table, Variable Table or Direct Area Calculation	S	N/A *
Icing - Deadweight item or density on Surface area	None	N/A *
Inland Waterways (ADN) Intact Stability, Type C Tank Ships, Tank Width > 0.7B	No	N/A *
Free Surfaces:		
Pre-defined Maximum values (at zero heel, Even keel or Trimmed)	E	None
Pre-defined Calibrated data (at zero heel, Even keel or Trimmed)	E	None
Directly calculated from tank geometry, taking heel into account	No	No
Directly calculated from tank geometry taking heel and trim into account	No	No
GZ Curve:		
Program calculates ship's overall TCG	Yes	N/A *
GZ curve calculations included for any initial heel angle (using GM or GZ)	YesGZ	No
GZ corrected for constant FSM/GGo for all heel angles	Yes	No
GZ corrected for FSM/GGo varying with heel (from pre-defined tables)	No	No
GZ directly calculated from 3D hull/tank geometry and floating position	No	No
Reference displacement - Intact, Intact minus Outflow	N/A *	None
Intermediate Stages assessed (number of stages)	N/A *	0
SRtP, Directive 2003/25 EC (Stockholm Agreement - Water on Deck)	N/A *	No
SRtP, User Entry of Actual Damage Case	N/A *	No
Limiting GM/KG Curve:		
Single parameter, pre-programmed (ie. limit versus draught)	No	No
Two parameter, pre-programmed (ie. see DAD for parameters)	Yes	Yes
Multiple parameter, pre-programmed (ie. see DAD for parameters)	No	No
Combined limit curve option (only where no separate curves exist)	No	N/A *
Grain Stability:		
Pre-programmed trimmed/partly filled data	No	N/A *
Pre-programmed trimmed/untrimmed/partly filled data	Yes	N/A *
Grain stability individual criteria check	Yes	N/A *
Pre-programmed allowable heeling moment check	Yes	N/A *
GZ curve with heeling moment plot shown	Yes	N/A *