Certificate No: LR26406486TA
Issue Date: 07/09/2026
Expiry Date: 06/09/2031

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	**Kockum Sonics AB**
Address	lndustrigatan 39, Malmö, 212 10, Sweden
Type	Monitoring System
Description	Hardware: HP EliteDesk series workstation OS: Microsoft Windows 11 Pro 24H2 Application software: LoadMaster X5 9.0.x.x and/or LoadMaster Loadstar 1.0.x.x. LoadMaster X5 and Loadstar are dedicated loading computer software products supplied and managed by Kockum Sonics AB.
Trade Name	Loading Computer System
Application	Marine Application
Specified Standard	Lloyd's Register's Rules and Regulations for the Classification of Ships, Part 6, Chapter 1, Clause 2.16 - Cyber Resilience, applicable requirements for on-board system and equipment. IACS UR E27 - Cyber Resilience of on-board systems and equipment, Rev. 1 Sept 2023.
Other Conditions	The control system shall be installed in areas with means to prevent unauthorized access.

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CHETAN WAGH

Senior Specialist Electrical & Control to Lloyd's Register Marine and Offshore India LLP

Units 1702-1704, 17th Floor (Level-13), Building Q2, Aurum Q Parc; Gen 4/1 TTC, Thane-Belapur Road, Ghansoli, Navi Mumbai, 400710, India

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The approval is valid when the internal network interface is connected to a trusted zone. Any external network connection to an untrusted zone is to through an approved gateway/ firewall.

The additional security capabilities required for CBSs with network communication to untrusted networks have not been tested. If in ship specific installation connection with untrusted network is to be established then additional security capabilities required as per LR Ship Rules, Part 6, Chapter 2, Section 2.16.10 are to be complied with, and tests are to be done for the demonstration of the same during the factory/ onboard survey.

When the Loading Computer System is delivered to a Ship where Cyber Resiliency requirements are applicable then the system is to be delivered with Project Specific System Certificate achieved through Plan approval of reduced set of documents as per IACS UR E27.

This certificate is issued on the understanding that all connections are wired. Any radiocommunication (e.g. Bluetooth, WiFi etc.) are excluded.

Type Approval does not eliminate the need (as required by LR Rules) the requirements for further review or for the product to be further inspected and/ or surveyed to be installed in ships classed or intended to be classed with LR.

If the specified standards are amended during the validity of this certificate, the product is to be reapproved prior to it being supplied to vessels to which the amended standards apply.

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 Marine and Offshore India LLP of any modification or changes to the equipment in order to obtain a valid Certificate.

The Design Appraisal Document TSO-26-062632-E-01 and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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