

APPROVAL CERTIFICATE

This is to certify, that the undernoted company has been approved by DNV GL SE for services on board ships classed with this Society, as far as DNV GL SE is authorized for statutory duties by the flagstate concerned.

Certificate No.	58 565 - 08 HH
Company	maresystems GmbH Kupferhammer 7 22399 Hamburg, GERMANY
Description	Testing of Voyage Data Recorders (VDRs)
Technical Data/ Application	Annual Performance Test of Voyage Data Recorder (VDR) in accordance with SOLAS 1974, as amended, Regulation V/18.8 and HSC Regulation13.16.2 Approval is granted for the following types, only: <ul style="list-style-type: none"> - Beijing Highlander: HLD-A/HLD-A1, HLD-A2/ HLD-S, HLD-B2/HLD-S2, VDR-600 - Qingdao Headway: HMT-100, HMT-S100 - Rutter: VDR-100 - Wärtsilä SAM Electronics: VDR 4300, 4330, 4340, 4350, 4360 - Simulation Tech: VDR-1000(S) - Interschalt maritime systems: MER, MER-VDR, MER-SVDR, MER-SVDR-C, VDR G4, VDR-G4e - Samsung Heavy Industries: SVDR-3000, SVDR-Pro, SVDR-N - Hyundai Heavy Industries: HiVDR, HiVDR-E
Approval Standard	Procedural Requirements for Service Suppliers Providing Services for Vessels Classed with Germanischer Lloyd / No. 0E111, February 2014.
Documents	Form F136JE / 2014-02, dated 2015-10-15.
Remarks	None

Valid until **2020-12-01**
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File No. **XIII.O.12**
Hamburg, 2015-12-02