

APPROVAL OF SERVICE SUPPLIERS

Certificate no.:
AOSS0000NMH
Revision no.:
1

This is to certify that

METALOCK BRASIL LTDA
SANTOS, Brazil

is granted acceptance for
Maintenance, thorough examination, operational testing, overhaul and repair of lifeboats and rescue boats, launching appliances and release gear , in accordance with Class Programme DNV-CP-0484 and IACS UR Z17 Annex 1 [13].

This service supplier certificate will be accepted for use with all rule sets published by DNV.
See the following page(s) for details regarding application.

This Certificate is valid from **2025-08-25** to (inclusive) **2028-08-24**.

This Certificate is issued on **2025-08-25**.



for **DNV**

This document has been digitally signed and will
therefore not have handwritten signatures

Mendonça, Leila da Costa e Silva de

This Certificate may be withdrawn if:

1. The service provided has been improperly carried out or the results improperly reported.
2. The surveyor has found any deficiencies in the accepted operating systems of the service supplier.
3. The firm has failed to inform of any major changes having effect on the quality of the service rendered.
4. The conditions listed in the certificate are changed and/or are not fulfilled.

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to USD 300 000.

Application:

The service Supplier is approved for maintenance, thorough examination, operational testing, overhaul and repair of the following equipment:

Remarks:

Lifeboats(incl. freefall lifeboats)	
Make	Model/ Type
QINDAO BEIHAI	Total enclosed: HB-5,5, 5S, 5SA, E500, E585, 6, 6A, 6S, E670, 7A, 7B and 8 series Freefall: BH-F6.0, F7.0A, F7.8, F8.1, F5.8, F6.8, F660, F670, F750 and F900A series.
FASSMER	Davit launched totally enclosed Lifebots: GMR 5.9, TGMR 5.9, GMR 6.5, TGMR 6.5, GMR 7.4, TGMR 7.4, GMR 8.3, TGMR 8.3, CLR-C 5.9, CLR-T 5.9, CLR-C 6.4, CLR-T 6.4, CLR C 6.8, CLR-T 6.8, CLR-C 7.2, CLR-T 7.2, CLR-C 7.6, CLR-T 7.6, CLR-C 8.1, CLR-T 8.1, CLR-C 8.5, CLR-T 8.5, CL-C 8.9, CL-T 8.9, CL-C 9.4, CL-T 9.4, CL-C 9.8, CL-T 9.8, CL-C 10.2, CL-T 10.2, CL-C 10.7, CL-T 10.7, CL-C 11.1, CL-T 11.1, CL-C 11.5, CL-T 11.5, CL-C 11.9, CL-T 11.9, CL-C 12.4, CL-T 12.4, CL-C 12.8, CL-T 12.8, CL-C 13.2, CL-T 13.2, CLX @ 8.5, CLX 10.0, CLX 11.7 and CLX 12.8 series Freefall Lifeboat: CFL 4.9, CFL-T 4.9, GAR 6.0, GAR-T 6.0, GAR 6.8, GAR-T 6.8, GAR 6.7, GAT-T 6.7, GAR 7.4, GAR-T 7.4, GAR 8.1, GAR-T 8.1, GAR 7.7, GAR-T 7.7, GAR 8.5, GAR-T 8.5, CFL-C 66, CFL-T 66, CFL-C 72, CFL-T 72, CFL-C 77, CFL-T 77, CFL-C 83 and CFL-T 83 series Partially enclosed Lifeboats: CL-P 5.9, CL-P 6.4, CL-P 6.8, CL-P 7.2, CL-P 7.6, CL-P 8.1, CL-P 8.5, CL-P 8.9, CL-P 9.4, CL-P 9.8, CL-P 10.2, CL-P 10.7, CL-P 11.1, CL-P 11.5, CL-P 11.9, CL-P 12.4, CL-P 12.8, CL-P 13.2, SEL 8.15, SEL 8.8, SEL 9.6, SEL 10.5, SEL 10.55, SEL 11.80, SEL 12.5, SEL-R 8.15, SEL 15.75 and SEL-T 10.75 series Partially enclosed Lifeboats - Tenderboats: TL Limo 1100, SEL-T 11.0, SEL-T 11.7, SEL-T 12.3, SEL-T 14.0, SEL-T 14.7, SEL-T 15.75, PLL 1099 and PLT-EVO 170 series Partially enclosed lifeboat, tenderboat and rescueboat: SEL-RT 7.7, SEL-RT 7.5 and SEL RT 8.5 series Partially enclosed Life- and Crew Tenderboats: SEL 11.0 (-T) series Partially enclosed Life-/Rescue-/Work-/Tender-Boats: SEL-R 7.4 and SEL-R 8.5 series High-performance tender: SFB 10.1 series
FASSMER MARLAND	DRAGON 26C, DRAGON 26T Tanker Version, DRAGON 32C, DRAGON 32T Tanker Version, DRAGON 38C, DRAGON 38T Tanker Version, GMR 6.5, GMR-T6.5 Tanker Version, GMR 7.4, GMR-T7.4 Tanker Version, HH57C (Hai Hong type), HH57T (Hai Hong type) Tanker Version, HH65C (Hai Hong type), HH65T (Hai Hong type) Tanker Version, HH70C (Hai Hong type), HH70T (Hai Hong type), Tanker Version, CLR-C5.9 and CLR-T5.9 Tanker Version series, Freefall lifeboat: GAR 6.7, GAR-T6.7 Tanker Version, GAR 7.4, GAR-T7.4 Tanker Version, CFL-C49(E), CFL-T49(E) Tanker Version, CFL-C66(E), CFL-T66(E) Tanker Version, CFL-C72(E), CFL-T72(E) Tanker Version, CFL-C77(E), CFL-T77(E) Tanker Version, CFL-C83(E) and CFL-T83(E) Tanker Version series
HATECKE	Lifeboat: GFF, GFF-T, GSAR, GSL and GSL-T series
HYUNDAI LIFEBOATS	HD, HT, HDL, HLB, HDF, HDFL, HDFN, HDR, HDFR
JIANGSU JIAOYAN	Freefall lifeboat: JY-FN-4.9, JY-FF-4.9, JY-FN-5.8, JY-FF-5.8, JYM-FN-6.65, JYM-FF 6.65, JY-FN-6.8, JY-FF-6.8, JY-FN-7.5, JY-FF-7.5, JY-FN-8.5, JY-FF-8.5 and JY-FN/FF 9.5 series Totally enclosed lifeboat: JY-QFP/N-5.0, JY-QFP/N-5.25, JY-QFP/N-6.0A, JY-QFP/N6.50, JY-QFP/N-7.0, JY-QFP/N-7.5, JY QFP/N-7.50A, JY-QFP/N-8.00, JY-QFP/N-8.50, JY QFP/N-8.50X, JY-QFP/N-9.35 and JY-QFP/N-10.90A series
JMU	Gravity & Freefall lifeboat: GF, GT, GTR, GTC, S, G, MU-FN and MU-FF series
NISHI-F	Lifeboats G and ML series

SHIGI	Totally enclosed lifeboat SZ series Freefall Lifeboat FEL series
HOEI SENPAKU	Type/Series: HS650, HS650F, HS520, HS520F, SO, SM, FO and FM series
ZHENJIANG MARINE AUXILIARY MACHINERY Co. Ltd	YH5.0QFP/YH5.0QFN/YH5.0QFP/YH6.5QFN/YH8.5QFP/YH8.5QFN/YH8.5QFP-A/YH8.5QFN - A/YH10.3QFP/YH10.3QFN/YH9.5QFP/YH9.5QFN/YH12.0QFP/YH12.0QFN/YH9.9BFP/YH12.5BFP/ZZH G-BF-12.5 YH5.9FP/YH5.9FN/YH6.7FP/YH6.7FN/YH7.5FP/YH7.5FN/YH8.5FP/YH8.5FN.

Rescue boats(incl. Fast rescue boats)	
Make	Model/ Type
QINDAO BEIHAI	Rescue: BH-R4, R4S, R4SA, R5S, HR6 and HR7 series
FASSMER	Rigid Rescueboat: RR 4.2, RR 4.2-M and RR 4.5 ID series Rescueboat: RIR 625 ID series Fast Rigid Rescueboat: FR (I)R 6.1, FR (I)R 6.1 ID, FRR 6.2 ID, FRR 6.5 ID-SF, FRR 6.6 ID, FRR 7.0 ID-SF, FRIR 6.25 and FRR 7.0 series
FASSMER MARLAND	Rigid rescue boat: RR4.2 / RR4.2-M, RRH4.2 and RR4.2 ID series Fast rigid rescue boat: FRR6.1 ID and FRR6.2 ID series
HATECKE	(Fast) Rescue Boat: RB AB, RB AB Duplex, RB AB FH, RB IB and RB/FRB AB FH series
HYUNDAI LIFEBOATS	HD, HT, HDL, HLB, HDF, HDFL, HDFN, HDR, HDFR
JIANGSU JIAOYAN	Rescue Boat: GJ4.2, GJ4.25, GJ4.5, GJ5.0, GJ5.25, GJ6.0B-1, GJ6.10, GJ7.50, GJ8.0Q-2 and GJ8.5Q-2 series
JMU	UM-GJ series
NISHI-F	Rescue Boat F series
SHIGI	Rescue Boat VOX series
ZHENJIANG MARINE AUXILIARY MACHINERY Co. Ltd	YH6.0FRA/YH6.0FRB/YH6.5FRA/YH6.5FRB/ YH4.5R/YH4.5DR/YH7.5

Release gear(for lifeboats(incl. freefall), rescue boats, fast rescue boats and davit launched liferafts)	
Make	Model/ Type
BADA	Series of BDR, BHA & BHR
QINDAO BEIHAI	BG-3, 3L, BG-7; BH-HOOK3, HOOK5, FS5 and FS7 series; BG-3.5F, 4F, 4.5F, 4.5FL, 5F, 6F; BG-2R, 15KNXS, 25KNXS, 35KNXS
FASSMER	Freefall Lifeboat Release Mechanism: FFRU 6.6 series, Duplex 25E2, Duplex 2.5E, 2.5T, Duplex 50E2, Duplex 5.0E, 5.0T, Duplex 60E2, Duplex 6.6E, Duplex 10E, 10T, Duplex 140E2, Duplex 14E, 14T, Duplex 17E, 17T, Duplex 180E2, Duplex 230E2, Duplex 23E, 23T, Duplex 260E2
FASSMER MARLAND	Onload release gear: Duplex 2.5, Duplex 2.5E, Duplex 25E2, Duplex 5.0, Duplex 5.0E, Duplex 50E2 and HH43 (Hai Hong type) series Onload release gear: Duplex 25E2, Duplex 2.5E, Duplex 50E2, Duplex 5.0E, Duplex 60E2, Duplex 6.6E, Duplex 10E, Duplex 140E2, Duplex 14E, Duplex 17E, Duplex 180E2, Duplex 230E2 and Duplex 23E series

GLOBAL DAVIT	Off-Load Release Type: HRN.12 and HRN.28. series Combined Off-load/Automatic Release Type: HRL.26. series
HATECKE	Duplex 2.6, Duplex 3.0, Duplex 3.5, Duplex 4.3/4.6, Duplex 6.0, GFF-R-10, GFF-R-11, GFF R-8, RAFTI 2.5, Simplex 2.0 Off-Load, Simplex 2.0 to, Simplex 2.0i, Simplex 3.0, Simplex 4.3 and Simplex 6.0 series
HYUNDAI LIFEBOATS	Series of THP, Talon & Talon II
JIANGSU JIAOYAN	JX and JXN series
DAVIT INTERNATIONAL	RH series ; OLH series ; OLRH series ; HS series ; ARH and CAR series ; PX series.
MANSEI	Release hooks RH series
ZHENJIANG MARINE AUXILIARY MACHINERY Co. Ltd	HK25/HK25B/HK40/HK40C/HK65/SH55/SH70/SH85 Handle release hook 15KN, Automatic release hook 21KN/23KN/25KN/35KN.
HOEI SENPAKU	Type/Series: HS650, HS650F, HS520, HS520F, SO, SM, FO and FM series

Launching appliances(for lifeboats(incl. freefall), rescue boats, fast rescue boats and davit launched liferafts)	
Make	Model/ Type
BADA	Series of DRM, BRBD, BDH, BDTD, BDHP, BDTW, BDRW, BDM & BFOD FF, HDFL, HDF, BDF, BDFD, BDR, BDH, BDA, BDFA, BDR, BLR, BHI
QIND AO BEIHAI	Gravity Pilot: BD-PV50, PV60, PV60S, PV85 and PV125 series, Freefall launching: BD FF55, 55A, 55R, FF80, 80A, 80R, 80B, FF65/66/67 and FF85 series, Single arm: BD SA14/A/B; 21/A; 23/30/A; 33, SH23, FA36 and RBD966 series
FASS MER	Fassmer Hydraulic Davit: FHD 80, FHD 100, FHD 120, FHD 130, FHD 150, FHD 170, FHD 172, FHD 280 and FHD 450 series, Hinged Davit: FHDY 100 series, Fassmer Freefall: FFH45 and FFH 65 series, Pivot Davit: FPD 55, FPD 60, FPD 100, FPD 80, FPD 120, FPD 150, FPD 170 and FPD D60 series, Freefall Davit: FFH 49, FFH 50, FFH 60, FFH 66, FFH 70, FFH 72, FFH 75, FFH 77, FFH 80, FFH 83, FFH 85 and FFH 90 series, Freefall Ramp: FLR 49, FLR 66, FLR 8005, FLR 8006 and FLR 8007 series, Multi Pivot Davit: FMPD 100, FMPD 130, FMPD 150 and FMPD 160 series, Outrigger davit: FOD 100, FOD 120, FOD 130, FOD 150, FOD 170, FOD 190, FOD 40R, FOD 50, FOD 55, FOD 80, FOD LBC 300, FOD SAR 40, FOD-R 22, FOD-R 23, FOD-R 25, FOD-R 40 and FOD TC 450 series, Rescue Boat Davit: FOSV 71 and FSAH 22 series, Rescue Boat Crane: FSAH 28, FSAH 32, FSAR 14, FSARR 14/3.5 HS, FSAR 21, FSARR 22/4.0HS-M, FSAR 28 and FSAR 40 series, FRC crane: PRHE 30 series, Fassmer Winch: DEW 40, DEW 85 and DEW 2000 series, Fassmer Winch/ rescue boat crane: DEW 8 and FWD 40 RB series
FASS MER MARL AND	Pivot davit: FPD-52, FPD-D60, FPD-D68, FPD-DH68 and SRH70 series, Freefall davit: FFH49, FFH49D, FFH66, FFH66D, FFH72, FFH77, FFH83, FLR49, FLR66 and FLR72 series, Rescue boat crane: FSAR 14/3.5HS, FSARR 14/3.5HS, FSAR 4.0/3.5HS, FSAR 21/4.0HS, FSARR 21/4.0HS, FSARR 22/4.0HS, FMAH 22KN and FSAR 25 series, Davit launched totally enclosed lifeboat HH57C, HH57T, HH65C, HH65T, HH70C HH70T
GLOB AL DAVIT	Liferaft handling: Lms., Lgp., Lhs., and Lht. Series, Rescue Boat handling (single point suspended): Rms., Rhs., Rhp. and Rht. Series, Fast Rescue Boat handling: Rhp.HC. and Rhs.HC. Series, Freefall Lifeboat handling: Fhs. Series, Life-/Rescue Boat handling (2-point suspended): G(l/s)p.FP., G(l/s)p.MP., G(l/s)p.FPh., G(l/s)p.FLh. and G(l/s)p.TTh. series
HATEC KE	Launching Appliance: FFA, FFA LP, FFB, Gsp.O, GspFP, Gsp.FLH, W07, W10 and W26 series, Davit series: H, T and TC series, Winch: EB, TC and OAP series
IKNOW	H, T, TC series

JIANG SU JIAOYAN	Gravity luffing arm type davit: JYL52, JYL55, JYL65, JYL85, JYL105 and JYL135 series, Laugning appliance: JYF55, JYF75, JYF75-B and JYF90 series, Platform davit: JYP65, JYP85, JYP105 and JYP135 series, Single arm davit: JYR21, JYR21S, JYR21C, JYR14, JYRH14, JYRH21, JYR26, JYR30 and JYR23 series, Eletric Boat winch: FW45, JYW42, JYW50, JYW70, JYW100, JYWP70, KYWP100, JYWP135, JYW35 and JYRZ21 series
JMU	Gravity & Freefall davit: MUL and MUF series, Rescue davit: MUR series
MANS EI	Davits: EBD, EM, ABD, AH, AT, AV, EH, ET, EV, M, CM, D-FH, DE-FH, MFE, MFH, SR, SER, R, S, RD and EHR series, Winch: EBW, ABW, AW, EW, MW, CMW, 06, FW, SW, RMW, MLW, and ERW series
ORIENTAL	Hinged gravity type davit: HGD, HGK, SHS, RTD, DHA and DMA series, Hinged gravity type winch: BWE, SWE and WL series, Freefall davit & winch: FD and WL series, Rescue / Liferaft davit & winch: RD and RDW series
SEKIGAHARA	Gravity type davit: SH, SFB, SHS, STS and SSS series, Freefall lifeboat davit: SFS, SFA, SFB, SFC and SFD series, Rescue Boat davit: SJS and SJR series
DAVIT INTERNATIONAL	C-F series ; C-S series ; D-F series (free-fall only) ; D-TF series ; D-FH/FG series ; D-RT series (roller track davit only) ; D-FO series ; D-NP, series, excl. D-NP.MP and D-NP.SP series ; D-BC series ; D-BR series ; D-CL series ; D-CR series ; D-NPS.SP series ; D-SR series ; D-RC series ; D-RB series ; C-L series ; D-CRm. FR series ; D-CRm.MOR series ; D-CRm.R.FR series ; D-NPS.FR. series ; D-NP.MP series ; D-NP.SP series ; D-NPS.MP series ; D-WP series ; D-FP series ; D-ND series ; D-TT series ; D-RTT series
ZHENJIANG MARINE AUXILIARY MACHINERY Co. Ltd	LE45-1/LE55-1/LE65-1/LE85-1/LE100-1/LE170-1/HE65/HE85/HE100/HE138/H170/RE50/RE60/RE80/RE100/SRH65/SRH85/SRH100/SRH120/SRH150/SRH170/SRH200/SRH230/GL65/GL85/GL110/GL138/GL165/TG65/TG85/TG110/TG150/TG170/TG200/TG230/HT80/HT100/HT150/HT210/LC400/RC60-EB/ FH55/FH70/FH75/FH85/FH100. SAF14/SAF21/SAFC21/SAFC25/SA21SA32HDCL2-6.5/HDCL3-6/HDCL3-10/LA35/SH-21/DH30/PL65/PL85/PL100/PL110/PL120/PL138/PL150/PL180/PL200/PL230/ LFR30/LFR35/LFR55/LFRH30/LEFR50/LFRH60/DH30/SAWH30/SAWH45/SAWH60. WINCHES: D21KN/D25KN/D32KN/D35KN/D48KN/D63KN/D65KN/D80KN/D100KN/D120KN/DP65KN/DP70KN/DP85KN/ DP100KN/DP110KN/DP120KN/DP138KN/DP150/DP180KN.

- 1 - Approved according to MSC.402(96)/ Corr.1 and IACS UR Z17, rev. 18;
- 2 - Neither agents, subsidiaries nor subcontractors are approved to carry out services on behalf of METALOCK;
- 3 - Prior to the beginning of each job, a valid personal certificate of service technician is to be presented and verified that it's covering all the maker and types to be serviced;
- 4 - The Service Report, the Approval of Service Supplier certificate and the personal certificate are to be left onboard upon completion of each job;
- 5 - Additional audits may be required if found necessary by the Class Society;
- 6 - It is company responsibility to inform DNV whenever there is modification of personnel qualification and manufacturer's approval.