APPROVAL OF MANUFACTURER CERTIFICATE

Certificate no.:
AMMM00002S4
Revision No:
2

This is to certify:

that

FUNDICIONES Y SERVICIOS, S.A. (FUNDYSER)
Gijón, Asturias, **Spain**

is an approved manufacturer of
Steel Castings

in accordance with

DNV rules for classification – Ships
DNV class programme – DNV-CP-0246 Steel castings

and the following particulars:

Application area	**Castings for machinery,** **Castings for propellers**
Steel type	**Carbon and carbon-manganese,** **Martensitic stainless**
Casting method	**See page 2**
Max. weight	**See page 2**
Max. wall thickness	**See page 2**
Heat treatment condition	**See page 2**

Manufacturer(s) approved by this certificate is/are accepted to deliver according to DNV GL, DNV and GL rules.
Materials to be applied to DNV classed object shall fulfill the material requirements in the applicable DNV class rules.

Issued at **Hamburg** on **2026-03-31**

This Certificate is valid until **2028-06-30**.
DNV local unit: **Area NB/CMC Iberia**

Approval Engineer: **Stefan Röhr**

for **DNV**

This document has been digitally signed and will therefore not have handwritten signature
Christian Wildhagen

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.

Particulars of the approval

Castings for machinery

Steel type	Grade [3]	Casting method [1]	Max. weight [kg]	Max. wall thickness [mm]	Heat treatment condition [2]
C and C-Mn	NV C400U, NV C440U, NV C480U, NV C520U	SC	2 200	200	N, NT, QT

Castings for propellers

Steel type	Grade [3]	Casting method [1]	Max. weight [kg]	Max. wall thickness [mm]	Heat treatment condition [2]
Martensitic	NV C12Cr1Ni NV C13Cr4Ni NV C16Cr5Ni	SC	1 400	200	QT

Remarks:

[1] SC: Sand Casting
[2] N: Normalized
NT: Normalized and tempered
QT: Quenched and tempered
[3] Incl. equivalent grades in acc. to other standards