

APPROVAL OF MANUFACTURER CERTIFICATE

Certificate No:
AMMM00001N8
Revision No:
1

This is to certify:

That
STAVANGER STEEL AS
Stålverksvegen 51, 4100 Jørpeland,
Norway

is an approved manufacturer of
Steel Castings

in accordance with
DNV GL rules for classification – Ships

and the following particulars:

Application area	Castings for hull structures and equipment Castings for machinery Castings for boilers, pressure vessels and piping systems Stainless steel castings
Steel type	Carbon and carbon-manganese, Alloy, Austenitic stainless, Martensitic stainless, Ferritic stainless, Ferritic-austenitic (duplex) stainless
Casting method	See page 2
Max. weight	Sand casting 10 000 kg
Heat treatment condition	See page 2
Additional approval conditions	Including nodes for structural application

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 GL classed object shall fulfill the material requirements in the applicable DNV GL class rules.

Issued at **Hamburg** on **2019-09-16**

for **DNV GL**

This Certificate is valid until **2022-08-23**.

DNV GL local station: **Stavanger**

Approval Engineer: **Christian Wildhagen**

Thorsten Lohmann
Head of Section



Job Id: **263.11-005096-3**
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Particulars of the approval

Castings for hull structure and equipment

Steel type	Grade ³⁾	Casting method ¹⁾	Max. weight [kg]	Heat treatment condition ²⁾
C and C-Mn	VL C400UW, VL C440UW, VL C480UW, VL C520UW, VL C560UW, VL C600UW	SC	10 000	N, NT, QT
Alloy	VL C550AW, VL C620AW	SC	10 000	QT

Castings for hull structure and equipment

Steel type	Grade ³⁾	Casting method ¹⁾	Max. weight [kg]	Heat treatment condition ²⁾
C and C-Mn	VL C400UW, VL C440UW, VL C480UW, VL C520UW, VL C560UW, VL C600UW	SC	10 000	N, NT, QT
Alloy	VL C550AW, VL C620AW	SC	10 000	QT

Castings for boilers, pressure vessels and piping systems

Steel type	Grade ³⁾	Casting method ¹⁾	Max. weight [kg]	Heat treatment condition ²⁾
C and C-Mn	C450H, C490H	SC	10 000	N, NT, QT
Alloy	VL C0.5Mo, VL C1Cr0.5Mo, VL C2.25Cr1Mo	SC	10 000	QT

Stainless steel castings

Steel type ³⁾⁴⁾	Casting method ¹⁾	Max. weight [kg]	Heat treatment condition ²⁾
Austenitic stainless	SC	10 000	SHT
Ferritic stainless	SC	10 000	acc. standard
Martensitic stainless	SC	10 000	QT
Ferritic-austenitic (22Cr & 25Cr duplex) stainless	SC	10 000	SHT

Remarks:

- 1) SC: Sand Casting
- 2) SHT: Solution Heat Treated (Solution Annealing)
 N: Normalized
 QT: Quenched and tempered
 NT: Normalized and tempered
- 3) Incl. equivalent grades in acc. to other standards
- 4) Stainless steel castings shall be in accordance with recognized standards / approved specification.