

APPROVAL OF MANUFACTURER CERTIFICATE

This is to certify:

That

**Canton Drop Forge
Canton, OH, USA**

is an approved manufacturer of
Steel Forgings

in accordance with
DNV GL rules for classification – Ships

and the following particulars:

Application area	Forgings for hull structures and equipment Forgings for shafting and machinery
Steel type	Alloy,
Forging method	Open die forging / closed die forging
Max. weight	410 kg
Heat treatment condition	Quenched and tempered
Additional approval conditions	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 GL classed object shall fulfill the material requirements in the applicable DNV GL class rules.

Issued at **Hamburg** on **2019-08-19**

for **DNV GL**

This Certificate is valid until **2021-12-31**.

DNV GL local station: **Houston**

Approval Engineer: **Torben Schällicke**

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**Thorsten Lohmann
Head of Section**



Job Id: **263.11-004378-2**
Certificate No: **AMMM00002K5**

Particulars of the approval

Forgings for hull structures and equipment

Steel type	Grade ³⁾	Forging method ¹⁾	Max. weight [kg]	Heat treatment condition ²⁾
Alloy	VL F550AW, VL F600AW, VL F650AW	OD, CD	410	QT

Forgings for shafting and machinery

Steel type	Grade ³⁾	Forging method ¹⁾	Max. weight [kg]	Heat treatment condition ²⁾
Alloy	VL F600A, VL F700A, VL F800A, VL F900A, VL F1000A, VL F1100A	OD, CD	410	QT

Remarks:

- ¹⁾ OD: Open die forging
CD: Closed die forging
- ²⁾ QT: Quenched and tempered
- ³⁾ Incl. equivalent grades in acc. to other standards