DNV·GL

APPROVAL OF MANUFACTURER CERTIFICATE

Certificate No: AMMM00000Y0 Revision No:

2

This is to certify:

That

Scot Forge Co. Spring Grove, IL, U.S.A.

is an approved manufacturer of **Steel Forgings**

in accordance with

DNV GL rules for classification - Ships DNVGL-OS-B101 - Metallic materials

and the following particulars:

Forgings for hull structures and equipment **Application area**

Forgings for shafting and machinery

Forgings for gearing

Forgings for boilers, pressure vessels and piping systems

Steel type Carbon and Carbon-Manganese,

Alloy

Forging method Open die forging, Ring rolling

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

Issued at Hamburg on 2019-09-12

for **DNV GL**

This Certificate is valid until 2022-06-30.

DNV GL local station: New York Approval Engineer: Stefan Röhr

Thorsten Lohmann

Head of Section



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Job Id: 263.11-000966-4 Certificate No: AMMM00000Y0

Revision No: 2

Particulars of the approval

Forgings for hull structures and equipment

Steel type	Grade ³⁾	Forging method 1)	Max. weight [kg]	Heat treatment condition ²⁾
C and C-Mn	VL F400UW, VL F440UW, VL F480UW, VL F520UW, VL F560UW, VL F600UW	OD, RR	10 000	N, NT, QT
Alloy	VL F550AW, VL F600AW, VL F650AW	OD, RR	10 000	QT

Forgings for shafting and machinery Forgings for gearing

Steel type	Grade ³⁾	Forging method 1)	Max. weight [kg]	Heat treatment condition ²⁾
C and C-Mn	VL F400U, VL F440U, VL F480U, VL F520U, VL F560U, VL F600U, VL F640U, VL F680U, VL F720U, VL F760U	OD, RR	10 000	N, NT, QT
Alloy	VL F600A, VL F700A, VL F800A, VL F900A, VL F1000A, VL F1100A	OD, RR	10 000	QT

Forgings for boilers, pressure vessels and piping systems

Steel type	Grade ³⁾	Forging method 1)	Max. weight [kg]	Heat treatment condition ²⁾
C and C-Mn	VL F450H, VL F490H	OD, RR	10 000	N, NT, QT
Alloy	VL F0.5Mo, VL F1Cr0.5Mo	OD, RR	10 000	N, NT, QT
	VL F2.25Cr1Mo	OD, RR	10 000	N, QT

Remarks:

OD: Open die forging; RR: Ring rolling
OD: QT: Quenched and tempered; N: Normalized; NT: Normalized and tempered
Incl. equivalent grades in acc. to other standards

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