# APPROVAL OF MANUFACTURER CERTIFICATE

Certificate No: AMMM00000CC Revision No: 1

DNV·GL

This is to certify:

# That Ural Stamping Plant, Chelyabinsk Branch Chelyabinsk, Russian Federation

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,
Forgings for shafting and machinery,
Forgings for gearing
Carbon and carbon-manganese,
Alloy
Open die forging
See page 2
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 2020-02-18

This Certificate is valid until **2022-12-31**. DNV GL local station: **St. Petersburg** 

Approval Engineer: Stefan Röhr

for **DNV GL** 

Thorsten Lohmann Head of Section

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV GL AS, its parent companies and subsidiaries as well as their officers, directors and employees ("DNV GL") 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 300,000 USD.



Form code: AM 311

Revision: 2020-01

www.dnvgl.com

Page 1 of 2

© DNV GL 2014. DNV GL and the Horizon Graphic are trademarks of DNV GL AS.

 Job Id:
 263.11-010503-1

 Certificate No:
 AMMM00000CC

 Revision No:
 1

### Particulars of the approval

#### Forgings for hull structures and equipment

Steel type	Grade <sup>3)</sup>	Forging method <sup>1)</sup>	Max. weight [kg]	Heat treatment condition <sup>2)</sup>
C and C-Mn	VL F400UW, VL F440UW, VL F480UW, VL F520UW, VL F560UW, VL F600UW	OD	20 000	N, NT, QT
Alloy	VL F550AW, VL F600AW, VL F650AW	OD	20 000	QT

# Forgings for shafting and machinery Forging for gearing

Steel type	Grade <sup>3)</sup>	Forging method <sup>1)</sup>	Max. weight [kg]	Heat treatment condition <sup>2)</sup>
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	20 000	N, NT, QT
Alloy	VL F600A, VL F700A, VL F800A, VL F900A, VL F1000A, VL F1100A	OD	20 000	QT

Remarks:

- <sup>1)</sup> OD: Open die forging
- <sup>2)</sup> N: Normalised
  - NT: Normalised and tempered
  - QT: Quenched and tempered
- <sup>3)</sup> Incl. equivalent grades in acc. to other standards