



**CERTIFICATE NO:
12-MMPS-FF&PAC-422**

**EFFECTIVE DATE:
03 February 2012**

CERTIFICATE OF FORGING FACILITY AND PROCESS APPROVAL

**BASED ON ENGINEERING REVIEW AND A PLANT SURVEY OF THE FACILITY IT
IS HEREBY CERTIFIED THAT,**

VITKOVICE HEAVY MACHINERY, A.S. OSTRAVA, CZECH REPUBLIC.

**IS APPROVED TO PRODUCE STEEL FORGINGS FOR USE IN MARINE APPLICATIONS
AS OUTLINED IN ABS BRUNO OFFICE SURVEY REPORT NO: BP2098779 DATED 03
FEBRUARY 2012 AND APPROVAL LETTER ISSUED.**

**THIS APPROVAL IS VALID FOR FIVE YEARS FROM THE EFFECTIVE DATE ON THIS
CERTIFICATE. THE RELEVANT ABS RULES ARE TO BE ADHERED TO IN ALL
RESPECTS, AND PRODUCTION, INSPECTION, AND TESTING OF THE FORGINGS ARE
TO BE TO THE SATISFACTION OF THE ATTENDING ABS SURVEYOR.**



**Gopal Magadi
Manager
ABS Materials, Houston**

Ref: STM/SM 944423; O2E TASK: 952972; OPN: 2710503

Note: This certificate evidences compliance with one or more of the Rules, Guides, Standards or other criteria of American Bureau of Shipping and is issued solely for the use of the Bureau, its committees, its clients or other authorized entities. This certificate is governed by the Rules and standards of American Bureau of shipping who shall remain the sole judge thereof.



VITKOVICE HEAVY MACHINERY A.S.,
RUSKA 2387/101,
706 02 OSTRAVA,
CZECH REPUBLIC.

Reference: STM/SM 944423
Project Number: 2766794

ATTN : Mr. Peter Vasicek – Quality Management Department.

**Forge Facility and Process Approval Renewal
ABS Approval of Vitkovice Heavy Machinery A.S.**

We have the ABS plant survey report BP2098779 of 03 February 2012, your submittal of 03 April 2012 together with enclosures relative to the subject. With regard thereto we advise that Vitkovice Heavy Machinery A.S., is considered approved to produce forgings to the requirements of ABS Hull & Machinery Forgings as outlined below, provided the *ABS Materials and Welding Rules Part 2 (2012)* are adhered to in all respects and all production and inspection are to the satisfaction of the local ABS Surveyor.

Material Categories : Carbon Steel, Carbon Manganese Steel, Alloy Steels.
Forging Process : Open Die.
Maximum Weight : 120,000kg
Product Examples : Built-up Crankshafts, Propeller and Intermediate Shafts, Hull and Machinery Forgings.

The information below is applicable to forged Crank Throws only.


Crank Throws for:	Material Categories:	Forging Process:	Maximum Weight:
S35MC / ME-B	MAN B&W P401-1 : S34CrNi	Drop Forging	3,000kg
S60 MC-C	MAN B&W P182-3 : S34MnV	Drop Forging	3,000kg
S42 MC	MAN B&W P401-2 : S34CrNi	'Block' Forging	3,000kg
S60 MC-C	MAN B&W P182-3 : S34MnV	'Block' Forging	3,000kg

Production of forgings is to be carried out in accordance with the ABS Materials Rules. We note no weld repairs will be carried out to ABS Classed forgings.

The approval is valid for five years from the date of the Plant Survey. ABS Houston Materials are hereby requested to issue the appropriate Certificate indicating the above details. Renewal of approval is to be sought by the subject facility prior to the five year expiry date. It is the responsibility of the facility to inform ABS of any changes in manufacturing parameters. Our invoice to cover the costs of the technical review is subject to separate correspondence.

If you have any questions regarding the above review please contact Simon Mills at the following e-mail address smills@eagle.org.

Very truly yours


PP David Morgan
Manager
London Offshore Engineering Department

Enc.
Document List

cc: ABS Brno
cc: ABS Houston Materials