Certificate no Page 1 of 1

MAN 1300057-1/A1

Purchaser's order number

Final date of inspection

22 June 2013

Plan approved at

PRS Gdansk

N130585



Certificate for Propeller

Office Manila

Manufacturer

NAKASHIMA PHILIPPINES, CORP.

Purchaser

Michigan Wheel Marine

Intended for

20metre Harbour Master vessel Gdynia

Particulars

Approved Plan number

MW13177A

Rule Requirements for Ice Class (is applicable)

Material

Grade Cu3

Trade Name

Left or right hand RH

A29=524

Number of Blades

Date

Client

02 July 2013

Work's order number

First date of inspection

Date of plan approval

28 May 2013

31 May 2013

PRS Order No.:TM/298/13

Solid or built (CP if controllable pitch)

93.8 kas.

Diameter

900 mm

Finished weight

Design moment of inertia dry, as stated by manufacturer (if available)

40 kg-cm-sec2

17.30

Results Of Tests Witnessed By The Surveyor

Cast Identification Number

Tensile Tests Tensile Strength N/mm²

proof stress, as applicable N/mm² 603.90 301.95

Yield or 0.2%

Elongation on

5,65 √ So%

Area %

Reduction of

When Required

Impact

Si

0.13

Chemical Composition And Heat Treatment As Stated By The Manufacturer

Cu	Zn	Mn	Fe	Al
80.20	0.41	0.91	4.56	8.98
()	H	9	(H))	<u>:€</u> :

Sn 0.03 Ni 4.73 0.03

Heat Treatment

Identification Marks

Identification number (including office contraction code)

MAN1300057/1

Propeller Number

Blade Number

GL41355

Remarks

Issued on behalf of Polski Rejestr Statkow S.A. (PRS)

Issued at

Manila

√22 June 2013

Location of identification marks

Boss

Surveyor to Lloyd's Register Asia

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