

REPORT ON BOILERS.

No. 2522

Received at London Office

TUES. 6 AUG 1907

Date of writing Report 31st July 1907 When handed in at Local Office

10 Port of Copenhagen

No. in Survey held at Copenhagen

Date, First Survey 4th Sept 06Last Survey 2nd July 1907

Reg. Book.

146 on the 4th Mt. Bk. Viking

(Number of Visits 11

Gross 2952

Tons Net 2541

Master N. A. Clausen Built at Copenhagen By whom built A. S. Burmeister & Hains Maskin og Skibsbyggeri When built 1907

Engines made at By whom made when made

Boilers made at Copenhagen By whom made A. S. Burmeister & Hains Maskin og Skibsbyggeri when made 1907

Registered Horse Power Owners A. S. Den danske Handelsflaades Skoleskib Port belonging to Copenhagen

MULTITUBULAR BOILERS—~~MAIN, AUXILIARY OR~~ DONKEY.—Manufacturers of Steel The Glasgow Iron & Steel Co., Furnaces from H. Beardmore

Letter for record S.) Total Heating Surface of Boilers 450 sq Is forced draft fitted no No. and Description of

boilers One single ended donkey boiler, 2 plain furnaces Working Pressure 100 lbs Tested by hydraulic pressure to 200 lbs Date of test 7th Novbr. 1906

No. of Certificate 254 Can each boiler be worked separately Area of fire grate in each boiler 15 sq No. and Description of

safety valves to each boiler 2 spring loaded Area of each valve 3.1416 sq Pressure to which they are adjusted 100 lbs.

Are they fitted with easing gear yes In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler

Smallest distance between boilers or uptakes and bunkers or woodwork no bunkers or woodwork Mean dia. of boilers 8'-0 3/2" Length 7'-0"

Material of shell plates S. M. Steel Thickness 9/16" + 1/32 Range of tensile strength 27-32 Tons Are the shell plates welded or flanged no

Descrip. of riveting: cir. seams Single long. seams Double Diameter of rivet holes in long. seams 1" Pitch of rivets 2 5/16"

Gap of plates or width of butt straps 5 1/2" Per centages of strength of longitudinal joint rivets 76.5 Working pressure of shell by

rules 100 lbs Size of manhole in shell 16" Size of compensating ring 8" x 1 1/2" No. and Description of Furnaces in each

boiler 2 plain Material S. M. Steel Outside diameter 27 7/8" Length of plain part top 60 3/8" Thickness of plates crown 7/16"

Description of longitudinal joint welded No. of strengthening rings Working pressure of furnace by the rules 116.96 lbs Combustion chamber

plates: Material S. M. Steel Thickness: Sides 7/16" Back 1/2" Top 7/16" Bottom 5/8" Pitch of stays to ditto: Sides 8" x 6 3/4" Back 7 3/4" x 7 1/2"

Top 8" x 6 3/4" If stays are fitted with nuts or riveted heads 100 lbs. sides + top Working pressure by rules 132.5 - back Material of stays S. M. Steel Diameter at

smallest part 1" Area supported by each stay 58 sq Working pressure by rules 110.24 End plates in steam space: Material S. M. Steel Thickness 1 1/16" x 3/4"

Pitch of stays 16" x 15" How are stays secured Double nuts & doubling plates Working pressure by rules 110.54 Material of stays S. M. Steel Diameter at smallest part 2.134"

Area supported by each stay 240 sq Working pressure by rules 149 lbs Material of Front plates at bottom S. M. Steel Thickness 3/4" Material of

Lower back plate S. M. Steel Thickness 1 1/16" Greatest pitch of stays 16.25" x 7.75" Working pressure of plate by rules 101.54 Diameter of tubes 2 3/4"

Pitch of tubes 3 3/4" Material of tube plates S. M. Steel Thickness: Front 3/4" Back 5/8" Mean pitch of stays 9 3/8" Pitch across wide

water spaces 12 1/2" Working pressures by rules 110.5 lbs Girders to Chamber tops: Material S. M. Steel Depth and thickness of

girder at centre 4 1/4" x 5/8" x 2 Length as per rule 20 7/16" Distance apart 8" Number and pitch of Stays in each 2 - 6 3/4"

Working pressure by rules 100 lbs Superheater or Steam chest; how connected to boiler flanged Can the superheater be shut off and the boiler worked

separately Diameter 30 3/8" Length 27 1/4" Thickness of shell plates 3/8" Material S. M. Steel Description of longitudinal joint Lap, 4 rivets Diam. of rivet

holes 3/4" Pitch of rivets 1 3/4" Working pressure of shell by rules 147.24 Diameter of flue Material of flue plates Thickness

If stiffened with rings Distance between rings Working pressure by rules End plates: Thickness 3/4" How stayed 2 stays 1 3/4"

Working pressure of end plates Area of safety valves to superheater Are they fitted with easing gear

BURMEISTER & WAINSKIN OG SKIBSBYGGERE The foregoing is a correct description,

COPENHAGEN.

Evan M. M. Manufacturer.

Dates During progress of 4/9, 15/9, 22/9, 29/9, 22/10, 29/10, 2/11 + 7/11-06 Is the approved plan of boiler forwarded herewith yes

while During erection on 23/2, 14/3, 2/7-07 Total No. of visits 11

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c. This steel donkey boiler has been

made in accordance with the approved plan, the Secretary's letter dated the 27th July 1906

and in other respects as required by the rules. The workmanship is good throughout.

It is submitted that
this vessel is eligible for
THE RECORD + DB 7-07 100 lbs.

Survey Fee ... £ 5 : : When applied for, 25/7 1907

Travelling Expenses (if any) £ : : When received, 26/7 1907

Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute WED. 7 AUG 1907

Assigned + DB 7-07

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Lloyd's Register
Foundation