

REPORT ON BOILERS.

No. 53.291.

TUES. 30 JUL 1907

Port of Newcastle on Tyne Received at London Office

No. in Survey held at Newcastle Date, first Survey ✓ Last Survey 27 July 1907
 Reg. Book. (Number of Visits 6)

on the Steel S. S. "Iowenburg" Tons { Gross 4781
 Net 3027

Master Built at Newcastle By whom built Swan Hunter & W Richards on When built 1907

Engines made at Newcastle By whom made Swan Hunter & W Richards on L^t when made 1907

Boilers made at A- By whom made A- when made 1907

Registered Horse Power Owners Hansa Co Port belonging to Bremen.

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel J Spence & Son

Letter for record R Total Heating Surface of Boilers 1100 Is forced draft fitted No No. and Description of Boilers One Cyl. S End Working Pressure 120 Tested by hydraulic pressure to 240 Date of test 28.5.07

No. of Certificate 7497 Can each boiler be worked separately ✓ Area of fire grate in each boiler 46.54 No. and Description of safety valves to each boiler 2 Spring Area of each valve 7.06 Pressure to which they are adjusted 125

Are they fitted with easing gear Yes In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler No

Smallest distance between boilers or uptakes and bunkers or woodwork 15 ^{out} dia. of boilers 12-1½ Length 10-3

Material of shell plates S Thickness 25/32 Range of tensile strength 28¾ to 32 Are the shell plates welded or flanged No

Descrip. of riveting: cir. seams d lap long. seams d shap Diameter of rivet holes in long. seams 7/8 Pitch of rivets 5½

Top of plates or width of butt straps 13¾ Per centages of strength of longitudinal joint rivets 83 Working pressure of shell by rules 135 Size of manhole in shell 16 x 12 Size of compensating ring 27½ x 25/32 plate 84

No. and Description of Furnaces in each boiler 3 plain Material S Outside diameter 38 5/8 Length of plain part 78½ Thickness of plates crown 21/32 bottom 86

Description of longitudinal joint d shap No. of strengthening rings ✓ Working pressure of furnace by the rules 142 Combustion chamber plates: Material S Thickness: Sides 1/2 Back 1/2 Top 1/2 Bottom 25/32 Pitch of stays to ditto: Sides 77/8 x 7¾ Back 7¾ x 7¾

Top 77/8 x 75/8 If stays are fitted with nuts or riveted heads nut Working pressure by rules 123 Material of stays 77/8 x 7¾ Diameter at smallest part 1-45 Area supported by each stay 61 Working pressure by rules 142 End plates in steam space: Material S Thickness 31/32

Pitch of stays 9 x 16½ How are stays secured d n & w Working pressure by rules 140 Material of stays S ^{area} Diameter at smallest part 5-05

Area supported by each stay 313 Working pressure by rules 160 Material of Front plates at bottom S Thickness 15/16 Material of lower back plate S Thickness 3/4 Greatest pitch of stays as per plan Working pressure of plate by rules 120 Diameter of tubes 3¼

Pitch of tubes 4½ x 4¾ Material of tube plates S Thickness: Front 15/16 Back 11/16 Mean pitch of stays 10 Pitch across wide water spaces 14¼ Working pressures by rules 155 Girders to Chamber tops: Material S Depth and thickness of girder at centre 7¼ x 1¼ Length as per rule 267/8 Distance apart 77/8 Number and pitch of Stays in each 2- 75/8

Working pressure by rules 147 Superheater or Steam chest: how connected to boiler ✓ Can the superheater be shut off and the boiler worked separately ✓ Diameter ✓ Length ✓ Thickness of shell plates ✓ Material ✓ Description of longitudinal joint ✓ Diam. of rivet holes ✓ Pitch of rivets ✓ Working pressure of shell by rules ✓ Diameter of flue ✓ Material of flue plates ✓ Thickness ✓

If stiffened with rings ✓ Distance between rings ✓ Working pressure by rules ✓ End plates: Thickness ✓ How stayed ✓

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

VERTICAL DONKEY BOILER—No. Description Manufacturers of steel

Made at By whom made When made Where fixed Working pressure

Tested by hydraulic pressure to Date of test No. of Certificate Fire grate area Description of safety valves

No. of safety valves Area of each Pressure to which they are adjusted If fitted with easing gear If steam from main boilers can enter the donkey boiler

Dia. of donkey boiler Length Material of shell plates Thickness Range of tensile strength

Descrip. of riveting long. seams Dia. of rivet holes Whether punched or drilled Pitch of rivets

Cap of plating Per centage of strength of joint Rivets Working pressure of shell by rules Thickness of shell crown plates

Radius of do. No. of Stays to do. Dia. of stays Diameter of furnace Top Bottom Length of furnace

Thickness of furnace plates Description of joint Working pressure of furnace by rules Thickness of furnace crown plates

Radius of do. Stayed by Diameter of uptake Thickness of uptake plates

Thickness of water tubes

The foregoing is a correct description,

SWAN HUNTER & WILKINSON RICHARDSON, LTD. Manufacturer.

Please see Rpt on Machinery.

Dates of Survey while building { During progress of work in shops - - - }
 { During erection on board vessel - - - }
 Total No. of visits

Is the approved plan of main boiler forwarded herewith

" " " donkey " "

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 W1628-0217

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.)

The material & workmanship is good
 The boiler has been fitted built under special survey & has been
 fitted in a satisfactory manner -

Certificate (if required) to be sent to

(The Surveyors are requested not to write on or below the space for Committee's Minute.)

The amount of Entry Fee...	£	:	:	When applied for,
Special ...	£	:	:	26 th July 1907
Donkey Boiler Fee ...	£	2	2	When received,
Travelling Expenses (if any) £	:	:	:	27 th July 1907

TUES. JUL 30 1907

Committee's Minute

Assigned

See minute
 on attached report

John H Heck.

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



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