

Mem Swan Hunter & W Richards on L^d No 778

REPORT ON BOILERS.

No. 53291.

TUES. 30 JUL 1907

pt. 5.

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 When built 1907
 Engines made at Newcastle By whom made Swan Hunter & W Richards on L^d when made 1907
 Boilers made at N^o By whom made N^o 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 ~~diam~~ ^{out} dia. of boilers 12-1 1/2 Length 10-3
 Material of shell plates S Thickness 25/32 Range of tensile strength 28 3/4 to 32 Are the shell plates welded or flanged No
 Descrip. of riveting: cir. seams d lap long. seams d stag Diameter of rivet holes in long. seams 7/8 Pitch of rivets 5 1/2
~~Pitch of plates or width of butt straps~~ 13 3/4 Per centages of strength of longitudinal joint rivets 83 plate 84 Working pressure of shell by rules 135 Size of manhole in shell 16 x 12 Size of compensating ring 2 1/2 x 2 5/32 No. and Description of Furnaces in each boiler 3 plain Material S Outside diameter 38 5/8 Length of plain part 78 1/2 Thickness of plates ^{orow} 21/32 bottom 86
 Description of longitudinal joint d stag 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 7 3/8 x 7 3/4 Back 7 3/4 x 7 3/4
 Top 7 1/8 x 7 5/8 If stays are fitted with nuts or riveted heads nut Working pressure by rules 123 Material of stays area 7 1/8 x 7 3/4 Diameter at smallest part 1-45 Area supported by each stay 67 Working pressure by rules 142 End plates in steam space: Material S Thickness 31/32
 Pitch of stays 9 x 16 1/2 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 3 1/4
 Pitch of tubes 4 1/2 x 4 3/8 Material of tube plates S Thickness: Front 15/16 Back 11/16 Mean pitch of stays 10 Pitch across wide water spaces 14 1/4 Working pressures by rules 155 Girders to Chamber tops: Material S Depth and thickness of girder at centre 7 1/4 x 1 1/4 Length as per rule 26 7/8 Distance apart 7 7/8 Number and pitch of Stays in each 2- 7 5/8
 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

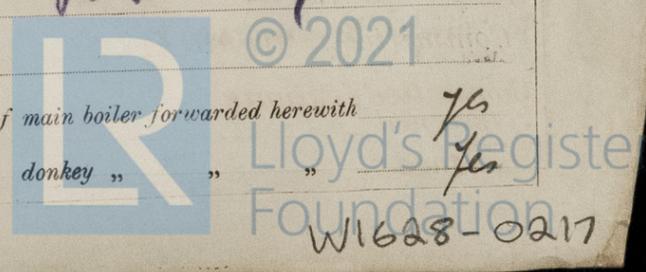
The foregoing is a correct description, SWAN, HUNTER & WILSON RICHARDSON, LTD. Manufacturer.

J Spence

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 Yes
 " " " donkey " " Yes



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	0	When received,
Travelling Expenses (if any)	£	:	:	27 th July 1907

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

TUES. JUL 30 1907

Committee's Minute

Assigned *See minute on attached report*



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