

REPORT ON BOILERS.

No. 6665

Received at London Office

Writing Report 15-9-1909 When handed in at Local Office 1909 Port of Belfast

Description in: Survey held at Belfast Date, First Survey 1909 Last Survey 1909

Book. A.B. Leices teno hinc (Number of Visits 1) Tons { Gross 8039
Net 5006

Length on the Belfast Built at Belfast By whom built Harland & Wolff Ltd When built 1909

Rivets plates made at Belfast By whom made Harland & Wolff Ltd when made -

Plates made at Belfast By whom made Harland & Wolff Ltd when made -

Registered Horse Power 1 Owners Robt P. Gay Ltd Port belonging to Liverpool

WATER TUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY—Manufacturers of Steel W. Colville & Son Ltd

Number for record 5 Total Heating Surface of Boilers 4814 sq ft Is forced draft fitted No No. and Description of Boilers Two-Single End Cylindrical Working Pressure 215 lbs Tested by hydraulic pressure to 430 lbs Date of test 28-4-09

Area of Certificate 418 Can each boiler be worked separately Yes Area of fire grate in each boiler 67 1/2 sq ft and Description of Valves to each boiler Two-Wood Spring Area of each valve 9.62 sq ft Pressure to which they are adjusted 215 lbs

They fitted with easing gear Yes In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler Yes

Smallest distance between boilers or uptakes and bunkers or woodwork About 5 ft Mean dia. of boilers 15'-6" Length 10'-9"

Material of shell plates Steel Thickness 1 1/2" Range of tensile strength 29-33 tons the shell plates welded or flanged No

Description of riveting: cir. seams Loose seams Butt Diameter of rivet holes in long. seams 1 1/2" Pitch of rivets 10"

Width of plates or width of butt straps 23 1/2" Per centages of strength of longitudinal joint rivets 96.9 Working pressure of shell by plate 83.5

Size of manhole in shell 16" x 12" Size of compensating ring McNeill's No. and Description of Furnaces in each boiler 4-Mansions Material Steel Outside diameter 45 1/2" Length of plain part top 9" Thickness of plates crown 3 1/2" bottom 3 3/4"

Description of longitudinal joint Well No. of strengthening rings 1 Working pressure of furnace by the rules 239 lbs Combustion chamber Material Steel Thickness: Sides 5 1/2" Back 5" Top 5 1/2" Bottom 3 1/2" Pitch of stays to ditto: Sides 8 x 7 1/4" Back 7 1/2 x 7 1/4"

If stays are fitted with nuts or riveted heads Nuts inside Working pressure by rules 218 lbs Material of stays Steel Diameter at smallest part 1 1/2" Area supported by each stay 60 1/2" Working pressure by rules 261 lbs Material of plates in steam space: Material Steel Thickness 3/32"

Area supported by each stay 268 1/2 sq ft Working pressure by rules 255 lbs Material of Front plates at bottom Steel Thickness 1 1/2" Material of lower back plate Steel Thickness 7/8" Greatest pitch of stays 12 1/2" Working pressure of plate by rules 249 lbs Diameter of tubes 2 1/4"

Pitch of tubes 4 x 4" Material of tube plates Steel Thickness: Front 1 1/2" Back 1 3/8" Mean pitch of stays 8 x 8" Pitch across wide water spaces 14" Working pressures by rules 341 lbs Girders to Chamber tops: Material Iron Depth and thickness of girder at centre 9 x (8 x 2) Length as per rule 29" Distance apart 9 x 8" Number and pitch of Stays in each 3 x 7 1/4"

Working pressure by rules 224 lbs 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 -

Pitch of rivets - Working pressure of shell by rules - Diameter of flue - Material of flue plates - Thickness -

Stays 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 -

The foregoing is a correct description,
W. Colville & Son Ltd Manufacturer.

Is the approved plan of boiler forwarded herewith Yes

Total No. of visits See other sheet

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

Survey Fee ... £ ✓ : : } When applied for, 19

Travelling Expenses (if any) £ : : } When received, 19

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

Committee's Minute PHI. 17 SEP 1909

Assigned see minute on attached pt Bel 6665



List of Rankey Rumps

General Service Duplex	9" x 6" x 10"
Auxiliary Feed	8" x 6" x 12"
Ballast	9" x 10" x 12"
Lamp Glass	6" x 4" x 4"
Main Feed	12" x 9" x 24"
Auxiliary Air Single	12" x 4" x 8"
Fresh Water	4" x 4 1/2" x 10"
Evaporator Feed	4" x 3 1/2" x 8"



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