

## REPORT ON BOILERS.

No. 9071

Received at London Office

WED. 19 MAR. 1924

Date of writing Report

101

When handed in at Local Office

1923

102

Port of

Belfast

No. in Survey held at

Belfast

Date, First Survey

1923 Aug 2

Last Survey

Mar 14

1924

Reg. Book.

on the Donkey Boiler for M.S. 6559 "GLENBANK"

(Number of Visits 13)

Gross

Tons

Net

Master

Built at

Glasgow

By whom built

Harland &amp; Wolff Ltd

When built

1924

Engines made at

Glasgow

By whom made

Harland &amp; Wolff Ltd

When made

1924

Boilers made at

Belfast

By whom made

Harland &amp; Wolff Ltd

When made

1924

Registered Horse Power

Owners Messrs Andrew Weir &amp; Co (Bankers) Port belonging to

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel J. D. &amp; Sons

(Letter for record 3) Total Heating Surface of Boilers 1510 sq ft Is forced draft fitted No No. and Description of

Boilers one single ended. Working Pressure 110 lbs Tested by hydraulic pressure to 215 lbs Date of test 12-3-24

No. of Certificate 835 Can each boiler be worked separately ✓ Area of fire grate in each boiler 144 sq ft No. and Description of

safety valves to each boiler 2 Spring loaded. Area of each valve 9.62 sq in Pressure to which they are adjusted 110 lbs/sq in.

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 2'-4" Mean dia. of boilers 12'-0 3/4" Length 11'-0"

Material of shell plates Steel Thickness 3/4" Range of tensile strength 28 to 32 tons Are the shell plates welded or flanged No

Descrip. of riveting: cir. seams D.R. long. seams T.R.D.B.S Diameter of rivet holes in long. seams 15/16" Pitch of rivets 6'8"

Top of plates width of butt straps 1'-2 1/4" Per centages of strength of longitudinal joint rivets 116 Working pressure of shell by

rules 120 lbs Size of manhole in shell 16" x 12" Size of compensating ring 20" x 20" x 2'-8" x 1/4" No. and Description of Furnaces in each

boiler Three Corn Material Steel Outside diameter 3'-4 1/8" Length of plain part top Thickness of plates crown 1/16"

Description of longitudinal joint weld No. of strengthening rings Working pressure of furnace by the rules 156 lbs Combustion chamber

plates: Material Steel Thickness: Sides 9/16" Back 9/16" Top 9/16" Bottom 3/4" Pitch of stays to ditto: Sides 8 1/4" x 8 1/2" Back 9" x 8 1/2"

Top 9 1/2" x 8 1/4" If stays are fitted with nuts or riveted heads nuts Working pressure by rules 154 lbs Material of stays Steel Area at

smallest part 122 sq in Area supported by each stay 46.5 sq in Working pressure by rules 143 lbs End plates in steam space: Material Steel Thickness 1/8"

Pitch of stays 18" x 18" How are stays secured nuts &amp; washers Working pressure by rules 130 lbs Material of stays Steel Area at smallest part 4-118

Area supported by each stay 324 sq in Working pressure by rules 140 lbs Material of Front plates at bottom Steel Thickness 3/4" Material of

Lower back plate Steel Thickness 3/4" Greatest pitch of stays 12 3/4" x 8 1/2" Working pressure of plate by rules 193 lbs Diameter of tubes 3 1/4"

Pitch of tubes 4 1/2" x 4 1/2" Material of tube plates Steel Thickness: Front 3/4" Back 3/4" Mean pitch of stays 8.92" Pitch across wide

water spaces 1'-2 1/4" Working pressures by rules W.W.S.P. 130 lbs Girders to Chamber tops: Material Steel Depth and thickness of

girder at centre 20" x 4" x 3/4" Length as per rule 2'-6" Distance apart 9'8" Number and pitch of Stays in each 3 @ 8 1/4"

Working pressure by rules 141 lbs Steam dome: description of joint to shell none. % of strength of joint

Diameter Thickness of shell plates Material Description of longitudinal joint Diam. of rivet holes

Pitch of rivets Working pressure of shell by rules Crown plates Thickness How stayed

SUPERHEATER. Type Date of Approval of Plan Tested by Hydraulic Pressure to

Date of Test Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler

Diameter of Safety Valve Pressure to which each is adjusted Is Easing Gear fitted

The foregoing is a correct description,

FOR HARLAND &amp; WOLFF LTD

J. D. &amp; Sons

Manufacturer.

Dates of Survey During progress of work in shops - - - while During erection on board vessel - - - building

Is the approved plan of boiler forwarded herewith No will be sent with to 656.

Total No. of visits

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

This Boiler has been built under Special Survey. Materials & Workmanship good. Hydraulic test satisfactory. It is being shipped to Glasgow for installation in the vessel. This boiler has been now been fitted on board the above vessel in an efficient manner and everything found satisfactory under steam. Safety valves adjusted to 110 lbs/sq in Washers F 1 1/2" A 1/2"

Survey Fee ... £ 10 : 2 : 0

When applied for, 18-3-1924

Travelling Expenses (if any) £

When received, 1-5-1924

Lond. 24 65. J.M.S.

William D. Little &amp; H. W. Crinick

Engineer Surveyors to Lloyd's Register of Shipping.

Committee's Minute GLASGOW - 8 JUL 1924

Assigned See Gls. Rpt. No. 43781 W.J.M.

Lloyd's Register Foundation

003056-003064-0178