

# REPORT ON BOILERS.

No. 32519.

Received at London Office

SAT. AUG. 27 1921

Date of writing Report

When handed in at Local Office

17/3/1921 Port of Hull.

Date, First Survey 27/9/20.

Last Survey

3/1/1921

No. in Survey held at

Hull

Reg. Book.

on the Main Boilers No 1234 for the S.S. "Glenside"

(Number of Visits

9.)

Gross 553.92

Net 244.47

Master

Built at

Goole

By whom built Goole S.B. & Reps Co. Ltd.

When built

1921

Engines made at

Coathridge

By whom made

W. Beardmore & Co. Ltd.

When made

1921

Boilers made at

Hull

By whom made

Shas & Holmes Ltd.

When made

1920.

Registered Horse Power

Owners

Glenside S.S. Co. Ltd.

Port belonging to

Middlesbrough.

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel *W. Beardmore & Co. Ltd.*

(Letter for record *S*) Total Heating Surface of Boilers *1550 sq ft* Is forced draft fitted *No* No. and Description of Boilers *One cyl with SE.* Working Pressure *180 lbs* Tested by hydraulic pressure to *360 lbs* Date of test *29-12-20*

No. of Certificate *3469* Can each boiler be worked separately *Yes* Area of fire grate in each boiler *47.5 sq ft* No. and Description of safety valves to each boiler *two spring loaded* Area of each valve *5.94 sq in* Pressure to which they are adjusted *185 lbs.*

Are 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 12"* Mean dia. of boilers *159 1/8"* Length *10'-5"*

Material of shell plates *Steel* Thickness *1 1/2"* Range of tensile strength *28 to 32 tons* Are the shell plates welded or flanged *No*

Descrip. of riveting: cir. seams *DRL* long. seams *TR. JBS.* Diameter of rivet holes in long. seams *1 1/8"* Pitch of rivets *6 1/8"*

Top of plates or width of butt straps *15 3/8"* Per centages of strength of longitudinal joint rivets *87.8* Working pressure of shell by rules *180 lbs*

Size of manhole in shell *16 x 12"* Size of compensating ring *7 x 1 1/2"* No. and Description of Furnaces in each boiler *Three plain* Material *Steel* Outside diameter *39 1/2"* Length of plain part *80"* Thickness of plates *3 1/2"*

Description of longitudinal joint *Welded.* No. of strengthening rings *-* Working pressure of furnace by the rules *185 lbs* Combustion chamber plates: Material *Steel* Thickness: Sides *1/8"* Back *1/8"* Top *1/8"* Bottom *1/8"* Pitch of stays to ditto: Sides *10 x 9"* Back *10 x 8 1/2"*

Top *10 x 8"* If stays are fitted with nuts or riveted heads *Yes* Working pressure by rules *181 lbs* Material of stays *Steel* Area at smallest part *2.07 sq in*

Pitch of stays *18 x 17"* How are stays secured *J.N.W.* Working pressure by rules *185 lbs* Material of stays *Steel* Area at smallest part *5.79 sq in*

Area supported by each stay *306 sq in* Working pressure by rules *196 lbs* Material of Front plates at bottom *Steel* Thickness *1/8"* Material of Lower back plate *Steel* Thickness *1/2"* Greatest pitch of stays *14 x 8 1/2"* Working pressure of plate by rules *186 lbs* Diameter of tubes *3 1/2"*

Pitch of tubes *4 1/8 x 5"* Material of tube plates *Steel* Thickness: Front *1/8"* Back *1/8"* Mean pitch of stays *11.2"* Pitch across wide water spaces *14 x 8 1/2"* Working pressures by rules *222 lbs* Girders to Chamber tops: Material *Steel* Depth and thickness of girder at centre *10 x 1 1/2"* Length as per rule *32.47"* Distance apart *10"* Number and pitch of Stays in each *Three 8"*

Working pressure by rules *234 lbs* Steam dome: description of joint to shell *-* % 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 CHARLES D. HOLMES & CO. LTD Manufacturer.

Dates of Survey while building: During progress of work in shops *1920: - Sept. 27, Oct 7, 14, 20 Nov 19, Dec 9, 24, 29* Is the approved plan of boiler forwarded herewith *Yes*  
During erection on board vessel *Jan 3* (see Hull Rpt No 32846) Total No. of visits *9*

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) *This boiler has been built under special survey, the materials & workmanship are good. On completion the boiler was tested by hydraulic pressure to 360 lbs & found sound & tight. The boiler has been properly fitted & secured on board the S.S. Glenside; and its safety valves adjusted under steam.*

Survey Fee ... £ *5-2-0* When applied for, *17/3/1921*  
Travelling Expenses (if any) £ : : When received, *1/4/1921*

TUE. SEP. 6 1921

*P. Fitzgerald.*  
*Garbottle.*  
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned

