

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

Reg. Book.

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

(Number of Visits 9.)

Gross 553.92

Tons 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

Chas & 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

(Letter for record S) Total Heating Surface of Boilers 1550 sq ft Is forced draft fitted No. and Description of Boilers One cyl multi 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 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 ft 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

Smallest distance between boilers or uptakes and bunkers or woodwork about 12" Mean dia. of boilers 159 1/8" Length 10'-8"

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

Descrip. of riveting: cir. seams DRL long. seams TR. DRS. 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 top 80" Thickness of plates crown 3 1/2" bottom 69"

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 Working pressure by rules 181 lbs. Material of stays Steel Area at smallest part 2.07 sq ft

smallest part 2.4 sq ft supported by each stay 99 lbs. Working pressure by rules 218 lbs. End plates in steam space: Material Steel Thickness 1 1/2"

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 ft

Area supported by each stay 306 sq ft Working pressure by rules 196 lbs. Material of Front plates at bottom Steel Thickness 1 1/8" Material of

Lower back plate Steel Thickness 1 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 7/8" x 5/8" Back 7/8" Mean pitch of stays 11.2" Pitch across wide

water spaces 14" x 8" 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: During progress of work in shops - - - 1920: - Sept. 27, Oct 7, 14, 20 Nov 19, Dec 9, 24, 29
 while building: During erection on board vessel - - - Jan 3 (see Hull Rpt No 32846)
 Is the approved plan of boiler forwarded herewith Yes.
 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 N.R.

TUE. SEP. 6 1921

Committee's Minute

Assigned

Engineer Surveyor to Lloyd's Register of Shipping.

Lloyd's Register Foundation