

REPORT ON BOILERS.

No. 40346

Received at London Office WED SEP 22 1920

Date of writing Report 17.9.1920 When handed in at Local Office Sept 17th 1920 Port of GLASGOW.

No. in Survey held at Paisley Date, First Survey 23.6.19 Last Survey 16.7.1920.
 Reg. Book. on the Two S.E. Marine Boilers for H "Gallicus" (Number of Visits 14.) Gross 1232 Tons Net 106
 Master Built at Whitnash By whom built Lloyd Royal Bldg Co 6 When built 1920
 Engines made at Glasgow By whom made McKie & Baxter No 945 When made 1920
 Boilers made at Paisley By whom made A. F. Craig & Co Ltd 662 & 663 When made 1920
 Registered Horse Power Owners Lloyd Royal Bldg Co Anonyme Port belonging to Antwerp

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel {D. Colville & Sons Ltd }
 {Glas. Iron & Steel Co Ltd }
 (Letter for record S) Total Heating Surface of Boilers 815 sq ft each Is forced draft fitted No. and Description of Boilers Two S.E. Marine Working Pressure 185 Tested by hydraulic pressure to 340 Date of test 16-4-20

No. of Certificate 15393 Can each boiler be worked separately Area of fire grate in each boiler 24 sq ft No. and Description of safety valves to each boiler Area of each valve Pressure to which they are adjusted 190
 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 Mean dia. of boilers 10' 3" Length 10' 8"
 Material of shell plates Steel Thickness 29/32 Range of tensile strength 28/32 Are the shell plates welded or flanged No
 Descrip. of riveting: cir. seams DR Lap long. seams TR DBS Diameter of rivet holes in long. seams 1" Pitch of rivets 4 1/4"

Lap of plates or width of butt straps 1' 3" Per centages of strength of longitudinal joint rivets 88.8 Working pressure of shell by rules 192 Size of manhole in shell 16" x 12" Size of compensating ring 29 5/8 x 25 5/8 x 4 5/8 No. and Description of Furnaces in each boiler Two Deighton Material Steel Outside diameter 3' 4 1/4 Length of plain part top Thickness of plates crown 1/2" bottom 1/2"

Description of longitudinal joint Weld No. of strengthening rings None Working pressure of furnace by the rules 184 Combustion chamber plates: Material Steel Thickness: Sides 11/16 Back 5/8 Top 11/16 Bottom 11/16 Pitch of stays to ditto: Sides 9 1/2 x 8 Back 8 1/4 x 8 Top 10 x 4 1/2 If stays are fitted with nuts or riveted heads Nuts Working pressure by rules 204 Material of stays Steel Area at smallest part 1.46 sq ft Area supported by each stay 66 Working pressure by rules 213 End plates in steam space: Material Steel Thickness 1 1/2"

Pitch of stays 19 1/2 x 12 3/4 How are stays secured Nut & Washer Working pressure by rules 185 Material of stays Steel Area at smallest part 5.24 Area supported by each stay 248 Working pressure by rules 220 Material of Front plates at bottom Steel Thickness 1 1/2 Material of Lower back plate Steel Thickness 1 1/2 Greatest pitch of stays 13 3/4 x 8 Working pressure of plate by rules 290 Diameter of tubes 3 1/4"

Pitch of tubes 4 9/16 x 4 1/2 Material of tube plates Steel Thickness: Front 1 1/2 Back 24/32 Mean pitch of stays 11 1/2 Pitch across wide water spaces 13 3/4 Working pressures by rules 198 & 230 Girders to Chamber tops: Material Steel Depth and thickness of girder at centre 8" x 5/8 D Length as per rule 23 1/2 Distance apart 10" Number and pitch of Stays in each 2 @ 4 1/2"

Working pressure by rules 226 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 Schmidt Date of Approval of Plan Feb. 5th 1920 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 145 lbs Is Easing Gear fitted

The foregoing is a correct description,
 Hector J. Macintosh Manufacturer.

Dates of Survey During progress of 1919 June 23 July 9 Aug 5-Sept 11-16 Oct 6-14-22-30 Is the approved plan of boiler forwarded herewith
 while building During erection on 1920 Feb 18 May 13-27 July 16 Total No. of visits 14.

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) These boilers have been built under special survey in accordance with the approved plan. The materials and workmanship are of good quality. These boilers have been fitted on board in a satisfactory manner, tried under steam and found tight & satisfactory.

Survey Fee ... £ 5 : 8 : } When applied for, 8-9-1920.
 Travelling Expenses (if any) £ : : } When received, 11-9-1920. med.

Committee's Minute Assigned
 Glasgow 21 SEP 1920
 See G.S. Rpt 40628
 Lloyd's Register Foundation
 W421-0103