

REPORT ON BOILERS.

No. 36328

Received at London Office WED. 27 SEP. 1916

Date of writing Report 1916 When handed in at Local Office 1916 Port of Glasgow
 No. in Survey held at Glasgow Date, First Survey 19-12-15 Last Survey 15-9-1916
 Reg. Book. on the 2 marine return tube boilers for the S.S. "Stepney" working in R. Williamson 14078222 (Number of Visits) Gross Tons 1916 Net 1916
 Master Wm Beadmore & Co Built at Glasgow By whom built D. Rowan & Co When built 1915
 Engines made at Coatbridge By whom made Wm Beadmore & Co When made 1916
 Boilers made at Glasgow By whom made D. Rowan & Co When made 1915
 Registered Horse Power _____ Owners _____ Port belonging to _____

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel The Steel Company of Scotland Ltd

(Letter for record (S)) Total Heating Surface of Boilers 1900 sq ft Is forced draft fitted no No. and Description of Boilers 2 single ended Working Pressure 180 Tested by hydraulic pressure to 300 Date of test 17/9/15
 No. of Certificate 13249 Can each boiler be worked separately yes Area of fire grate in each boiler 31.7 sq ft No. and Description of safety valves to each boiler _____ Area of each valve _____ Pressure to which they are adjusted _____
 Are they fitted with easing gear no In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler no
 Smallest distance between boilers or uptakes and bunkers or woodwork _____ Mean dia. of boilers 10'-6" Length 10'-3"
 Material of shell plates steel Thickness 7/8" Range of tensile strength 25 to 32 Are the shell plates welded or flanged no
 Descrip. of riveting: cir. seams double lap long. seams tube butt Diameter of rivet holes in long. seams 15/16" Pitch of rivets 6-8"
 Lap of plates or width of butt straps 1 1/4" Per centages of strength of longitudinal joint _____ rivets 86.2 Working pressure of shell by rules 180 Size of manhole in shell 16" x 12" Size of compensating ring 20" x 29" x 7/8" No. and Description of Furnaces in each boiler 2 plain Material steel Outside diameter 39 5/8" Length of plain part _____ Thickness of plates crown 3/4" bottom 3/4"
 Description of longitudinal joint welded No. of strengthening rings/part _____ Working pressure of furnace by the rules 192 Combustion chamber plates: Material steel Thickness: Sides 5/8" Back 5/8" Top 5/8" Bottom 5/8" Pitch of stays to ditto: Sides 9" x 8" Back 9" x 8 1/4"
 Top 9" x 7 3/4" If stays are fitted with nuts or riveted heads no Working pressure by rules 183 Material of stays steel Diameter at smallest part 1.76" Area supported by each stay 74 1/2" Working pressure by rules 189 End plates in steam space: Material steel Thickness 29" Pitch of stays 13 1/2" x 13" How are stays secured 2 nuts Working pressure by rules 180 Material of stays steel Diameter at smallest part 3.49"
 Area supported by each stay 204" Working pressure by rules 180 Material of Front plates at bottom steel Thickness 29" Material of Lower back plate steel Thickness 32" Greatest pitch of stays 13 3/4" Working pressure of plate by rules 220 Diameter of tubes 5 1/2"
 Pitch of tubes 4 1/2" x 4 3/8" Material of tube plates steel Thickness: Front 29" Back 13" Mean pitch of stays 11 1/8" Pitch across wide water spaces 14" Working pressures by rules 182 Girders to Chamber tops: Material steel Depth and thickness of girder at centre 7 1/4" x 3/4" Length as per rule 28 7/16" Distance apart 7 3/4" Number and pitch of Stays in each (2) 9"
 Working pressure by rules 193 Superheater or Steam chest; how connected to boiler none 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 holes _____ Pitch of rivets _____ Working pressure of shell by rules _____ Diameter of flue _____ Material of flue plates _____ Thickness _____
 If 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
 pro Dava Rowan Manufacturer.

Dates of Survey During progress of work in shops - - - while building During erection on board vessel - - - Please see attached machinery report Is the approved plan of boiler forwarded herewith yes Total No. of visits _____

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) These boilers have been built under special survey, the materials and workmanship are of good description. These Boilers have been fitted on board the vessel in a satisfactory manner.

Survey Fee ... £ : : When applied for, 191
 Travelling Expenses (if any) £ : : When received, 191

A. McKeand 2020
 Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute GLASGOW 26 SEP. 1916
 Assigned See minute on attached report

Fred. A. Ferguson
 TUE. 3-OCT. 1916
 Lloyd's Register Foundation