

REPORT ON BOILERS.

No. 29314
WED. 21 SEP 1910

Received at London Office

Writing Report 4. 8. to 10. When handed in at Local Office 12 SEP 1910 at Port of Glasgow.

Survey held at Glasgow. Date, First Survey 16th March Last Survey 3rd Aug 1910

Boiler Boiler on the s/s "BRENTHAM." (Number of Visits 18) Gross 828.54 Tons Net 370.75

Builder A. Campbell. Built at Glasgow By whom built Thackie & Thomson (N^o 397) When built 1910.

Wheels made at Coatbridge By whom made W. V. V. Lidgerwood (N^o 339) when made 1910.

Boilers made at Glasgow By whom made Lindsay Burnet & Co (N^o 1268) when made 1910.

Registered Horse Power _____ Owners Paton & Hendry Port belonging to Glasgow.

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel D. Colville & Sons.

Letter for record S. Total Heating Surface of Boilers 2503 sq ft Is forced draft fitted No. and Description of Boilers one single ended marine type Working Pressure 160 lb. Tested by hydraulic pressure to 320 lb. Date of test 3. 8. 10.

Number of Certificate 10523 Can each boiler be worked separately Area of fire grate in each boiler 76 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 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 _____

Material of shell plates Steel Thickness 1 5/32 Range of tensile strength 28/32 ton Are the shell plates welded or flanged no

Description of riveting: cir. seams D.R. long. seams T.R.B.S. Diameter of rivet holes in long. seams 1 7/32 Pitch of rivets 8 7/16

Width of butt straps 17 3/4 Per centages of strength of longitudinal joint rivets 87.6% Working pressure of shell by plate 85.5%

Number of manholes in shell 181 lb. Size of manhole in shell 16" x 12" Size of compensating ring 5 3/4" flanged No. and Description of Furnaces in each boiler 4 Deighton Material Steel Outside diameter 3'-7" Length of plain part _____ Thickness of plates crown 1 5/32 bottom 1 5/32

Description of longitudinal joint welded No. of strengthening rings none Working pressure of furnace by the rules 161 lb. Combustion chamber plates: Material Steel Thickness: Sides 5/8 Back 19/32 Top 5/8 Bottom 5/8 Pitch of stays to ditto: Sides 8 3/4 x 8 5/8 Back 8 2 x 9 1/8

Working pressure by rules 162 Material of stays Steel at smallest part 1.73" Area supported by each stay 75" Working pressure by rules 184 lb. End plates in steam space: Material Steel Thickness 1"

How are stays secured on wash Working pressure by rules 217 Material of stays Steel at smallest part 4.77" Area supported by each stay 226" Working pressure by rules 219 Material of Front plates at bottom Steel Thickness 2 5/32 Material of lower back plate Steel Thickness 2 5/32 Greatest pitch of stays 1'-1 5/8 Working pressure of plate by rules 219 Diameter of tubes 3 1/2

Pitch of tubes 4 3/4 x 4 3/4 Material of tube plates Steel Thickness: Front 1" Back 3/4 Mean pitch of stays 9 1/2 Pitch across wide spaces 13 1/2 Working pressures by rules 196 lb. Girders to Chamber tops: Material Steel Depth and thickness of girder at centre 9' x 1 1/2 Length as per rule 35 15/32 Distance apart 9' Number and pitch of Stays in each 3 @ 8 7/8

Working pressure by rules 160 lb. Superheater or Steam chest: how connected to boiler none Can the superheater be shut off and the boiler worked separately

Survey request form No. _____ attached

The foregoing is a correct description, Lindsay Burnet & Co Manufacturer.

Dates During progress of work in shops: 1910 Mar 16. 31. Apr: 7. 14. 20. 27 Is the approved plan of boiler forwarded herewith yes.

While building: 29. May 4. 19. 30. June 7. 10. 17. 24. July 4. 11. 30. Aug 3. Total No. of visits 18.

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) The workmanship & materials are good. The boiler has been built under special survey & will be fitted on board the vessel at Glasgow.

See machinery report

Survey Fee ... £ _____ : _____ : _____ When applied for, _____ 19 _____

Travelling Expenses (if any) £ _____ : _____ : _____ When received, _____ 19 _____

A. H. Eilditch
Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute GLASGOW 20 SEP. 1910

Assigned See Machinery report.

Lloyd's Register Foundation