

REPORT ON BOILERS.

No. 17651

Date of writing Report *May 19th 1920* When handed in at Local Office *May 20th 1920* Port of *Greenock*
 No. in Survey held at *Greenock* Date, First Survey *16th April, 1919* Last Survey *May 19th 1920*
 Reg. Book. on the *S/S "TELESFORA DE LARRINAGA"* (Number of Visits *87*) Gross *5780* Tons Net *3537*
 Master *R. F. Hagle*. Built at *Port-Glasgow*. By whom built *R. Duncan & Co (S/N 344)* When built *1920-5*
 Engines made at *Greenock*. By whom made *Rankin & Blackmore Ltd (N 353)* When made *1920-5*
 Boilers made at *Greenock*. By whom made *Rankin & Blackmore Ltd (N 353)* When made *1920-5*
 Registered Horse Power Owners *Larrinaga & Co Ltd* Port belonging to *Liverpool*

MULTITUBULAR BOILERS ~~MAIN, AUXILIARY OR~~ DONKEY. — Manufacturers of Steel *The Steel Co of Scotland Ltd*
 (Letter for record *1*) Total Heating Surface of Boilers *1736* Is forced draft fitted *no* No. and Description of

Boilers *One Cylt Multi Single Ended* Working Pressure *140* Tested by hydraulic pressure to *280* Date of test *8-3-20*
 No. of Certificate *1432*. Can each boiler be worked separately ☒ Area of fire grate in each boiler *34.5* No. and Description of

safety valves to each boiler *Two Spring*. Area of each valve *5.94* Pressure to which they are adjusted *145*
 Are they fitted with easing gear *yes*. 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 *2.4* Mean dia. of boilers *13'-0"* Length *11'-0"*
 Material of shell plates *S*. Thickness *27/32* Range of tensile strength *28 1/2 to 32 1/2* Are the shell plates welded or flanged *no*

Descrip. of riveting: cir. seams *LAP DR* long. seams *DBS/T.R.* Diameter of rivet holes in long. seams *17/16* Pitch of rivets *6 3/4*
 Top of plates or width of butt straps *14 1/4* Per centages of strength of longitudinal joint rivets *90-12* Working pressure of shell by

rules *142 lbs*. Size of manhole in shell *16" x 12"* Size of compensating ring *34" x 30" x 7/8"* No. and Description of Furnaces in each
 boiler *2 Deighton*. Material *S*. Outside diameter *49 1/4* Length of plain part *top* Thickness of plates *crown* *17/32*

Description of longitudinal joint *weld*. No. of strengthening rings *1* Working pressure of furnace by the rules *166* Combustion chamber
 plates: Material *S*. Thickness: Sides *21/32* Back *9/16* Top *21/32* Bottom *1/16* Pitch of stays to ditto: Sides *10 1/2 x 9 1/2* Back *8 3/4 x 8 5/8*

Top *10 1/2 x 10* If stays are fitted with nuts or riveted heads *Ints*. Working pressure by rules *141* Material of stays *Iron* Area at
 smallest part *1.77* Area supported by each stay *75.4* Working pressure by rules *176* End plates in steam space: Material *S*. Thickness *1 1/2*

Pitch of stays *18 3/4 x 18* How are stays secured *DN+W*. Working pressure by rules *141* Material of stays *S*. Area at smallest part *4.77*
 Area supported by each stay *337.5* Working pressure by rules *147* Material of Front plates at bottom *S*. Thickness *1/16* Material of

Lower back plate *S*. Thickness *3/4* Greatest pitch of stays *14" x 8 5/8"* Working pressure of plate by rules *144* Diameter of tubes *3"*
 Pitch of tubes *4 1/4 x 4 1/8* Material of tube plates *S*. Thickness: Front *11/16* Back *1/8* Mean pitch of stays *8 3/8* Pitch across wide

water spaces *14"* Working pressures by rules *160* Girders to Chamber tops: Material *S*. Depth and thickness of
 girder at centre *9 1/4 x 1 1/2* Length as per rule *36 13/16* Distance apart *10"* Number and pitch of Stays in each *3 @ 10 1/2"*

Working pressure by rules *141* 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 ☒ 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,
 RANKIN & BLACKMORE, LTD.,
 Manufacturer.

Dates of Survey
 During progress of work in shops - -
 while building - -
 During erection on board vessel - -

See Mcky Report.

Is the approved plan of boiler forwarded herewith *yes*.Total No. of visits *87*.

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) *The boiler has been constructed under Special Survey. The materials & workmanship are sound & good. The boiler has been tested in the shop by hydraulic pressure to 280 lbs per sq in, afterwards satisfactorily installed in vessel & examined under steam & the safety valves adjusted as above.*

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

Committee's Minute GLASGOW MAY 1920

Assigned See accompanying report

J. Robinson & W. Lane
 Engineer Surveyors to Lloyd's Register of Shipping.