

REPORT ON BOILERS.

No. 35584.
WED. 17. NOV. 1915

Received at London Office

Date of writing Report *17th Nov* 1915 When handed in at Local Office *9th Nov* 1915 Port of *Glasgow*

No. in Survey held at *Glasgow* Date, First Survey *22/3/15* Last Survey *21st Oct* 1915

Reg. Book. on the Boiler No 666 to the order of Messrs A & W Dalglisch & Co Ltd Glasgow (Number of Visits *18*) Gross Tons }
Net Tons }

Master Built at By whom built When built

Engines made at By whom made When made

Boilers made at *Glasgow* By whom made *Messrs A & W Dalglisch* When made *1915*

Registered Horse Power Owners Port belonging to

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel *David Colville & Sons Ltd*
*The Lanarkshire Steel Co Ltd*Letter for record *S* Total Heating Surface of Boilers *1050 ft²* Is forced draft fitted *No* No. and Description ofBoilers *1 Single ended Marine* Working Pressure *135 lb* Tested by hydraulic pressure to *270 lb* Date of test *21-10-15*No. of Certificate *13273* Can each boiler be worked separately Area of fire grate in each boiler *35.5 ft²* No. and Description ofSafety valves to each boiler *2 Spring valves* Area of each valve *5.94 in²* Pressure to which they are adjusted *138 lb*Are they fitted with easing gear *No* In case of donkey boilers, state whether steam from main boilers can enter the donkey boilerSmallest distance between boilers or uptakes and bunkers or woodwork *11 in* Inside Mean dia. of boilers *11' 0"* Length *10' 0"*Material of shell plates *Steel* Thickness *3/4 in* Range of tensile strength *28-32* Are the shell plates welded or flanged *No*Descrip. of riveting: cir. seams *DR* long. seams *TR DBS* Diameter of rivet holes in long. seams *3/8 in* Pitch of rivets *5 5/8 in*Gap of plates or width of butt straps *13 3/4 in* Per centages of strength of longitudinal joint rivets *84.8* plate *84.4* Working pressure of shell byrules *141 lb* Size of manhole in shell *16 x 12 in* Size of compensating ring *6 x 3/4 in* No. and Description of Furnaces in eachBoiler *2 Plain* Material *Steel* Outside diameter *3-6 in* Length of plain part *78 3/4 in* Thickness of plates *4 3/8 in* crown *4 3/8 in* bottom *6 1/8 in*Description of longitudinal joint *Weld* No. of strengthening rings *Nil* Working pressure of furnace by the rules *135 lb* Combustion chamberplates: Material *Steel* Thickness: Sides *17/32 in* Back *17/32 in* Top *17/32 in* Bottom *15/16 in* Pitch of stays to ditto: Sides *8 x 7 1/2 in* Back *7 1/2 x 7 1/2 in*Top *8 x 7 1/2 in* If stays are fitted with nuts or riveted heads *Nuts* Working pressure by rules *146 lb* Material of stays *Steel* Diameter atsmallest part of area supported by each stay *60 in²* Working pressure by rules *135 lb* End plates in steam space: Material *Steel* Thickness *1 3/8 in*Pitch of stays *15 x 14 1/2 in* How are stays secured *Nuts* Working pressure by rules *143 lb* Material of stays *Steel* Diameter at smallest part *3' 03 in*Area supported by each stay *217 in²* Working pressure by rules *144 lb* Material of Front plates at bottom *Steel* Thickness *1 1/8 in* Material ofLower back plate *Steel* Thickness *1 1/8 in* Greatest pitch of stays *12 in* Working pressure of plate by rules *147 lb* Diameter of tubes *3 1/4 in*Pitch of tubes *4 1/2 x 4 1/2 in* Material of tube plates *Steel* Thickness: Front *1 1/8 in* Back *5/8 in* Mean pitch of stays *10 1/2 in* Pitch across widewater spaces *14 8/8 DP* Working pressures by rules *183 lb* Girders to Chamber tops: Material *Steel* Depth and thickness ofgirder at centre *6 3/4 x 1 1/8 in* Length as per rule *26.8 in* Distance apart *7 1/2 in* Number and pitch of Stays in each *Two 8 in*Working pressure by rules *144 lb* Superheater or Steam chest: how connected to boiler 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

Survey request form

No 1739. attached

The foregoing is a correct description,

A. W. Dalglisch Manufacturer's

Dates of Survey During progress of work in shops - - - 1915 March 22, Apr 9, 20, May 6, 12, 26, Jun. 3, 23, July 13, 27 Is the approved plan of boiler forwarded herewith *Yes* and advice letter

while building During erection on board vessel - - - Aug 18, Sept 8, 15, 23, 27, Oct 8, 13, 21. Total No. of visits *18*

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.)

This boiler has been built under special survey and the workmanship is good

Survey Fee ... £ 3 : 10 : } When applied for, 191

Travelling Expenses (if any) £ : : } When received, 191

Committee's Minute GLASGOW

Assigned TRANSMIT TO LONDON

16 NOV. 1915

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

FRI. JAN. 14. 1916