

REPORT ON BOILERS.

No. 34441

Received at London Office MAR. 22 1918.

191 When handed in at Local Office 191 Port of Glasgow
 Survey held at Dumbarton Date, First Survey 24th Aug. 1914 Last Survey 23rd Jan. 1918
 on the Standard Boilers S.O. 192 P.S. "War Viper" (Number of Visits 10) Gross 5160 Tons Net 3122
 Built at Belfast By whom built Harland & Wolff Ltd. (531) When built 1918
 made at Belfast By whom made - When made 1918
 made at Dumbarton By whom made Denny & Co When made 1917
 Horse Power - Owners The Shipping Controller Port belonging to London

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

for record 5 Total Heating Surface of Boilers 4668 sq ft Is forced draft fitted yes No. and Description of
Three single ended Working Pressure 180 lbs Tested by hydraulic pressure to 360 lbs Date of test 26-12-17
 Certificate 14046 Can each boiler be worked separately yes Area of fire grate in each boiler 63.3 sq ft No. and Description of
 valves to each boiler 2 - 2 level Spring Area of each valve 9.62 sq ft Pressure to which they are adjusted 185 lbs
 fitted with easing gear yes In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler no
 distance between boilers or uptakes and bunkers or woodwork about 3 ft. Mean dia. of boilers 15'-6" Length 11'-4 1/2"
 of shell plates steel Thickness 1 1/4" Range of tensile strength 28/32 tons Are the shell plates welded or flanged no
 of riveting: cir. seams DR lap long. seams IBS TR Diameter of rivet holes in long. seams 1 5/16" Pitch of rivets 9 1/8"
 plates or width of butt straps 19 1/2" Per centages of strength of longitudinal joint rivets 88.3 Working pressure of shell by
182 Size of manhole in shell end 16 x 12 Size of compensating ring plate flanged in No. and Description of Furnaces in each
3 Beighton Material steel Outside diameter 50 3/16" Length of plain part top - bottom - Thickness of plates crown 19 bottom 32
 tion of longitudinal joint weld No. of strengthening rings - Working pressure of furnace by the rules 187 Combustion chamber
 Material steel Thickness: Sides 23/32" Back 11/16" Top 23/32" Bottom 23/32" Pitch of stays to ditto: Sides 10 5/8" x 9 1/4" Back 10 1/4" x 8 3/4"
5 x 9 1/4" If stays are fitted with nuts or riveted heads nuts Working pressure by rules 180 Material of stays steel Diameter at
 part 2.39" Area supported by each stay 99 sq in Working pressure by rules 216 End plates in steam space: Material steel Thickness 1 1/32"
 of stays 21 3/4" x 20 7/8" How are stays secured DN + W Working pressure by rules 189 Material of stays steel Diameter at smallest part 8.29"
 supported by each stay 454 sq in Working pressure by rules 189 Material of Front plates at bottom steel Thickness 31/32" Material of
 back plate steel Thickness 27/32" Greatest pitch of stays 13 5/8" Working pressure of plate by rules 205 Diameter of tubes 2 3/4"
 of tubes 4 x 3 7/8" Material of tube plates steel Thickness: Front 31/32" Back 3/4" Mean pitch of stays 9 13/16" Pitch across wide
 spaces 13 5/8" Working pressures by rules 182 Girders to Chamber tops: Material steel Depth and thickness of
 at centre 2 plates 10 x 7/8" Length as per rule 36" Distance apart 10 5/8" Number and pitch of Stays in each 3 of 9 1/4"
 g pressure by rules 182 Superheater or Steam chest; how connected to boiler none Can the superheater be shut off and the boiler worked
 ely — Diameter — Length — Thickness of shell plates — Material — Description of longitudinal joint — Diam. of rivet
 — Pitch of rivets — Working pressure of shell by rules — Diameter of flue — Material of flue plates — Thickness —
 ened with rings — Distance between rings — Working pressure by rules — End plates: Thickness — How stayed —
 ng pressure of end plates — Area of safety valves to superheater — Are they fitted with easing gear —

The foregoing is a correct description,

Denny & Co Manufacturer.

During progress of 1914 Aug. 24, Sep. 20, 25, Oct. 12, Nov. 5, 20, Dec. 4, 12, 26 Is the approved plan of boiler forwarded herewith yes
 work in shops - - -
 During erection on 1918 Jan 23 board vessel - - - Total No. of visits 10

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

These boilers have been constructed under special survey in accordance with the rules approved plans and have been tested by hydraulic pressure to 360 lbs. Materials & workmanship are good. The boilers have been forwarded to Belfast to be fitted on a standard vessel.

Survey Fee £ 13/3 When applied for, 1918
 Travelling Expenses (if any) £ - total 13/3 When received, 1918

Harry Clarke 2021
 Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

TUE. MAR. 26 1918.

TUE. 9 - APR. 1918

See Ref. p. 41 7925



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