

REPORT ON BOILERS.

No. 34369
FRI. DEC. 28 1917.

Received at London Office

Date of writing Report 20 Dec 1917 When handed in at Local Office 1917 Port of Glasgow
 No. in Survey held at Glasgow Date, First Survey 15th May 1917 Last Survey 17th Dec 1917
 Reg. Book. on the Marine Boilers designed to 1649/50 for Messrs Dunlop Munro & Co. No 327 Vessel
 Master Built at By whom built When built
 Engines made at Glasgow By whom made Lindsay Burnet & Co When made 1917
 Boilers made at Glasgow By whom made Lindsay Burnet & Co When made 1917
 Registered Horse Power Owners Port belonging to

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel Steel Coy of Scotland.

(Letter for record S) Total Heating Surface of Boilers 1890 Sq. Ft. Is forced draft fitted Yes No. and Description of

Boilers One Single Ended Working Pressure 180 lbs Tested by hydraulic pressure to 360 lbs Date of test 17-12-17.

No. of Certificate 14027 Can each boiler be worked separately Area of fire grate in each boiler 40 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 9' 6" Length 11' 0"

Material of shell plates Steel Thickness 7/8 Range of tensile strength 28/32 Are the shell plates welded or flanged No

Descrip. of riveting: cir. seams D.R. Lap. long. seams Trip Riv Bulbs Diameter of rivet holes in long. seams 5/16 Pitch of rivets 6 3/4

Lap of plates or width of butt straps 1' 2" Per centages of strength of longitudinal joint 87 Working pressure of shell by

rules 199 lbs Size of manhole in shell 16" x 12" Size of compensating ring 2' 3" x 2' 7" x 1/2" No. and Description of Furnaces in each

boiler One Corrugated Material Steel Outside diameter 3' 1 1/2 Length of plain part 3' 1 1/2 Thickness of plates crown 17/32 bottom 3/32

Description of longitudinal joint Welded No. of strengthening rings four Working pressure of furnace by the rules 220 lbs Combustion chamber

plates: Material Steel Thickness: Sides 3/32 Back 5/8 Top 3/32 Bottom 3/32 Pitch of stays to ditto: Sides 8" x 9" Back 9" x 8"

Top Girders If stays are fitted with nuts or riveted heads Lugs Working pressure by rules 185 lbs Material of stays Steel Diameter at

smallest part 1 3/4" Area supported by each stay 132 sq. in. Working pressure by rules 189 lbs End plates in steam space: Material Steel Thickness 3/32

Pitch of stays 13 1/2 x 17 How are stays secured Lugs Working pressure by rules 144 lbs Material of stays Steel Diameter at smallest part 5/8

Area supported by each stay 229 sq. in. Working pressure by rules 228 lbs Material of Front plates at bottom Steel Thickness 3/32 Material of

Lower back plate Steel Thickness 3/32 Greatest pitch of stays 13 1/2 x 8 1/8 Working pressure of plate by rules 240 lbs Diameter of tubes 2 1/2

Pitch of tubes 3 3/8 Material of tube plates Steel Thickness: Front 3/32 Back 5/8 Mean pitch of stays 95 mm Pitch across wide

water spaces 13 1/2 Working pressures by rules 184 lbs Girders to Chamber tops: Material Steel Depth and thickness of

girder at centre 9 x 3/4 x 2 Length as per rule 31.25 mm Distance apart 9 ft Number and pitch of Stays in each 3 at 8"

Working pressure by rules 193 lbs 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 The foregoing is a correct description, Lindsay Burnet & Co Manufacturer.

No 1991 attached

Dates During progress of work in shops 1917 May 15, 21, 28 June 4, 25 July 9, 24 Aug. 2, 22, 29 Sep 6, 13, 20 Oct 11, 18 Nov 26, 27 Is the approved plan of boiler forwarded herewith Yes

while building During erection on board vessel 1917 May 16, 23, 30 June 5, 12, 19 Dec 5, 12, 19 Total No. of visits 28

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) These boilers have been built under

special survey in accordance with the approved plan. The workmanship and material is good.

and the boilers in my opinion are suitable for the working pressure of 180 lbs. per square inch.

The boilers are to the order of Messrs Dunlop Munro & Co.

Survey Fee 14 13 30 When applied for 12 May 1918

Travelling Expenses (if any) 2 6 9 1/8 When received 29/10/18

of Shipping. Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute GLASGOW 27 DEC 1917

Assigned TRANSMIT TO LONDON

ERI.-8 NOV. 1918

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