

REPORT ON BOILERS.

No. 38991

Received at London Office

Date of writing Report 1919 When handed in at Local Office 1. 8. 1919 Port of Glasgow
 No. in Survey held at Glasgow Date, First Survey 4. 2. 18. Last Survey 21. 2. 1919
 Reg. Book. on the Boilers No B279. S.S. "Backworth" (Number of Visits 13.) Gross 2481.39 Tons Net 1441.97
 Master Built at Port Glasgow. By whom built Dunlop Bremner & Co. Ltd. When built 1919.
 Engines made at Port Glasgow. By whom made Dunlop, Bremner & Co. (No 335) When made 1919.
 Boilers made at Glasgow By whom made D. Rowan & Co. Ltd. When made 1919
 Registered Horse Power 262 Owners The Robert Stanley Shipping Co. Ltd. Port belonging to Newcastle-on-Tyne

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

Letter for record S) Total Heating Surface of Boilers 4426 # Is forced draft fitted no No. and Description of Boilers Two Single ended Working Pressure 180 # Tested by hydraulic pressure to 360 # Date of test 21. 2. 19
 No. of Certificate 14628 Can each boiler be worked separately yes Area of fire grate in each boiler 62 # No. and Description of Safety valves to each boiler Two Direct spring Area of each valve 8.29 # Pressure to which they are adjusted 185 lbs #
 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'-6" Mean dia. of boilers 15'-6" Length 10'-6"
 Material of shell plates Steel Thickness 1 1/4" Range of tensile strength 28-32 tons Are the shell plates welded or flanged no
 Descrip. of riveting: cir. seams D. L. Long. seams T.R.D.B.S. Diameter of rivet holes in long. seams 1 5/16" Pitch of rivets 8.75"
 Lap of plates or width of butt straps 19 1/2" Per centages of strength of longitudinal joint rivets 92.3 plate 85 Working pressure of shell by rules 180 Size of manhole in shell 16 x 12 Size of compensating ring 16 x 12 No. and Description of Furnaces in each boiler 3 corrugated Material Steel Outside diameter 4'-1 1/2" Length of plain part top Thickness of plates crown 37" bottom 64"
 Description of longitudinal joint welded No. of strengthening rings — Working pressure of furnace by the rules 184 Combustion chamber plates: Material Steel Thickness: Sides 11" Back 32" 16" Top 11" Bottom 16" Pitch of stays to ditto: Sides 9 1/4 x 9 3/4 Back 8 3/4 x 10 1/4
 If stays are fitted with nuts or riveted heads nuts Working pressure by rules 180 Material of stays Steel Diameter at smallest part 2.07" Area supported by each stay 90.5" Working pressure by rules 205 End plates in steam space: Material Steel Thickness 1 3/8"
 Pitch of stays 24" x 22" How are stays secured nuts Working pressure by rules 184 Material of stays Steel Diameter at smallest part 8.29"
 Area supported by each stay 463.5" Working pressure by rules 186 Material of Front plates at bottom Steel Thickness 5/8" Material of lower back plate Steel Thickness 15/16" Greatest pitch of stays 13 3/4" Working pressure of plate by rules 250 Diameter of tubes 3 1/4"
 Pitch of tubes 4 3/8 x 4 1/2" Material of tube plates Steel Thickness: Front 1 1/32" Back 13/16" Mean pitch of stays 11 1/8" Pitch across wide water spaces 14 1/4"
 Working pressures by rules 187 Girders to Chamber tops: Material Steel Depth and thickness of order at centre 8 x (7/8") Length as per rule 32" Distance apart 9 1/4" x 8" Number and pitch of Stays in each 200 9 3/4"
 Working pressure by rules 182 Superheater or Steam chest: how connected to boiler none 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
 Pitch of rivets Working pressure of shell by rules Diameter of flue Material of flue plates Thickness
 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

The foregoing is a correct description,

David Rowan & Co. Ltd. Manufacturer.

Dates During progress of 1918. Feb. 4. July 24. 29. Aug. 22. Sept. 11.
 Survey work in shops -- Oct. 1. 16. 20. Nov. 21. Dec. 19.
 while During erection on 1919. Jan. 8. July 11. 21.
 building board vessel ---
 Is the approved plan of boiler forwarded herewith yes
 Total No. of visits 6

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) The Boilers have been built under special survey, the materials and workmanship are good. These boilers have been efficiently fitted on board the vessel.

Survey Fee £ 8 : 5/6 When applied for, on Ex. Rpt. 17508
 Travelling Expenses (if any) £ : : When received, 3.10.19

James Easthope & Co. Ltd. Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute GLASGOW 6 AUG 1919

Assigned Deferred.

See Ex. Rpt. 17508

Lloyd's Register
 Glasgow 19 AUG 1919
 Foundation

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