

REPORT ON BOILERS.

No. 39608
WED. FEB. 11/1920

Received at London Office

Date of writing Report 191 When handed in at Local Office 28-6-1919. Port of Glasgow
 No. in Survey held at Glasgow Date, First Survey 26th Dec, 1918. Last Survey 27th June 1919.
 Reg. Book. on the Books no B 113. **SS TREVERBYN** (Number of Visits 21) Gross Tons Net
 Master Built at Glasgow By whom built Harland & Wolff Ltd (no 530) When built 1920
 Engines made at Glasgow By whom made Harland & Wolff Ltd (no 561) When made 1920
 Boilers made at Glasgow By whom made Dunsmair & Jackson B no B 113 When made 1919
 Registered Horse Power Owners Hain SS Co Ltd Port belonging to St James

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel J. Colville & Co
 Letter for record S Total Heating Surface of Boilers 7668 sq ft Is forced draft fitted Yes No. and Description of Boilers 3 Multitubular Single Ended Working Pressure 180 Tested by hydraulic pressure to 360 lbs Date of test 25/27/6/19
 No. of Certificate 14792 Can each boiler be worked separately Yes Area of fire grate in each boiler 63.3 sq ft No. and Description of Safety valves to each boiler 2 Spring loaded Area of each valve 9.627 sq ft 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 —
 Smallest distance between boilers or uptakes and bunkers or woodwork 1-9" dia. of boilers 15-6" Length 11-6"
 Material of shell plates S Thickness 1/4" Range of tensile strength 28/32 Are the shell plates welded or flanged No
 Description of riveting: cir. seams L.D.R long. seams S. Straps T.R. Diameter of rivet holes in long. seams 1 5/16" Pitch of rivets 9/8"
 Width of butt straps 19 1/2" Per centages of strength of longitudinal joint rivets 88.3 Working pressure of shell by rules 182 Size of manhole in shell 16" x 12" Size of compensating ring Flanged plate No. and Description of Furnaces in each boiler 1 This Corrugated Material S Outside diameter 50 3/16" Length of plain part top Thickness of plates crown 19 1/2" bottom 3/32" Description of longitudinal joint welded No. of strengthening rings none Working pressure of furnace by the rules 182 Combustion chamber Material S Thickness: Sides 23/32" Back 1 1/16" Top 23/32" Bottom 23/32" Pitch of stays to ditto: Sides 10 3/8" x 9 1/4" Back 10 1/4" x 8 3/4"
 If stays are fitted with nuts or riveted heads nuts Working pressure by rules 180 Material of stays S Area Diameter at smallest part 2 3/4" Area supported by each stay 98.2 Working pressure by rules 219 End plates in steam space: Material S Thickness 1 1/32" How are stays secured S nuts Working pressure by rules 180 Material of stays S Area Diameter at smallest part 8.29" Area supported by each stay 4.73 Working pressure by rules 182 Material of Front plates at bottom S Thickness 3/32" Material of rear back plate S Thickness 27/32" Greatest pitch of stays 13 5/8" x 8 3/4" Working pressure of plate by rules 203 Diameter of tubes 2 3/4"
 Material of tube plates S Thickness: Front 3/32" Back 3/4" Mean pitch of stays 9 7/8" Pitch across wide spaces 13 5/8" Working pressures by rules 183 Girders to Chamber tops: Material S Depth and thickness of girder at centre 10" x 1 3/4" Length as per rule 35 9/16" Distance apart 10 5/8" Number and pitch of Stays in each 3 @ 9 1/4"
 Working pressure by rules 187 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 Pitch of rivets Working pressure of shell by rules Diameter of flue Material of flue plates Thickness
 Stays stayed 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

DUNSMAIR & JACKSON, Limited.

The foregoing is a correct description,

James Alches Director Manufacturer.

During progress of survey work in shops - 1918 Dec 26, 1919 Jan 23, Feb 10, 18, 24, Mar 5, 10, 14, 24, Apr 2. Is the approved plan of boiler forwarded herewith Yes
 During erection on board vessel - 29, May 6, 13, 26, 30, June 5, 9, 12, 17, 23, 27. Total No. of visits 21.

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) These boilers have been built under special survey and in accordance with the Rules; the materials and workmanship are sound and good. On completion they were tested by water pressure to 360 lbs and found tight and satisfactory. These Boilers have now been satisfactorily fitted to the Vessel Jas Easthope 3-2-20

Survey Fee ... £ 11 : 9 : } When applied for, 24/12/1919
 Travelling Expenses (if any) £ : : } When received, 2/1/20

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

Committee's Minute GLASGOW 10 FEB 1920

FRI. DEC. 4 1920

See accompanying machinery report.

