

REPORT ON BOILERS.

No. 38647

Received at London Office

Date of writing Report 18th March 1919 When handed in at Local Office 191 Port of Glasgow
 No. in Survey held at Glasgow Date, First Survey Sept 18th 1919 Last Survey 4/4 1919
 Reg. Book. on the main boiler for the Steamer "JOHN HUNS" (Number of Visits) } Gross ✓
 } Net ✓
 Master Built at Paisley By whom built Sullerton & Co When built 1919
 Engines made at Glasgow By whom made Wm Beardmore & Co 533 When made 1919
 Boilers made at Glasgow By whom made A & W Dalglisch (No 728) When made 1918
 Registered Horse Power 45 Owners H. M. Government Port belonging to

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel Wm Beardmore & Co

(Letter for record S) Total Heating Surface of Boilers 1368 Is forced draft fitted No No. and Description of Boilers One S.E. marine Working Pressure 180 Tested by hydraulic pressure to 360 Date of test 30-11-18

No. of Certificate 14541 Can each boiler be worked separately Area of fire grate in each boiler 40 No. and Description of safety valves to each boiler Pair Springloaded Area of each valve 5.9 Pressure to which they are adjusted 185

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 8" wide Mean dia. of boilers 12.6 Length 10'0"

Material of shell plates steel Thickness 1 1/2 Range of tensile strength 28-32 Are the shell plates welded or flanged

Descrip. of riveting: cir. seams D.R.LAP long. seams T.R.D.B.S. Diameter of rivet holes in long. seams 1 1/16 Pitch of rivets 7 3/8

Lap of plates or width of butt straps 16 Per centages of strength of longitudinal joint rivets 86.6 Working pressure of shell by plate 85.5

rules 182 Size of manhole in shell 16" x 12" Size of compensating ring 6" x 1 1/2" No. and Description of Furnaces in each boiler 3 Plain Material steel Outside diameter 37" Length of plain part 77.35" Thickness of plates crown 2 3/8" bottom 3 1/2"

Description of longitudinal joint weld No. of strengthening rings Working pressure of furnace by the rules 182 Combustion chamber plates: Material steel Thickness: Sides 5/8" Back 2 1/32" Top 5/8" Bottom 5/8" Pitch of stays to ditto: Sides 8 1/2" x 8" Back 9 3/4" x 8"

Top 8 1/2" x 8 3/4" If stays are fitted with nuts or riveted heads nuts Working pressure by rules 187 Material of stays steel Diameter at smallest part 1.79" Area supported by each stay 75" Working pressure by rules 206 End plates in steam space: Material steel Thickness 1 1/8"

Pitch of stays 17" x 17" How are stays secured D. Nuts Working pressure by rules 196 Material of stays steel Diameter at smallest part 5.27"

Area supported by each stay 289" Working pressure by rules 189 Material of Front plates at bottom steel Thickness 1 1/16" Material of Lower back plate steel Thickness 1 5/16" Greatest pitch of stays 14 1/2" Working pressure of plate by rules 260 Diameter of tubes 3 1/2"

Pitch of tubes 4 3/4" x 4 3/4" Material of tube plates steel Thickness: Front 1 1/16" Back 3/4" Mean pitch of stays 9.5" Pitch across wide water spaces 14 1/2" Working pressures by rules 213 Girders to Chamber tops: Material steel Depth and thickness of girder at centre 8 1/2" x 5/8" D. Length as per rule 28.6" Distance apart 8 3/4" Number and pitch of Stays in each Two @ 8 1/2"

Working pressure by rules 191 Superheater or Steam chest: how connected to boiler Can the superheater be shut off and the boiler worked separately

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 required form No 2061 attached

The foregoing is a correct description, A. W. Dalglisch, Manufacturers

Dates of Survey } During progress of work in shops - 1919 Sept 18-21, Oct 7, Dec 4, 14, 29, 1918; Jan 8, 10, 16, 22, Feb 26, Mar 7, 15, the approved plan of boiler forwarded herewith Yes
 while building } During erection on board vessel - 1919 July 1, 8, 31, Aug 28, Sept 9, 19, 23, Oct 25, Nov 6, 22, 26, 30, Total No. of visits 50
 Dec 6, 12, 24, (1919) Jan 8, 14, 24, Feb 5, 13, Apr 11

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) The material & workmanship is good. The boiler has been built under special supervision. It is intended for the above vessel & will be fitted on board in Glasgow. The boiler has not been securely fitted on board the vessel & its safety valves adjusted under steam.

Survey Fee £ When applied for, 191
 Travelling Expenses (if any) £ When received, 191

Committee's Minute GLASGOW 15 APR 1919
 Assigned See accompanying machinery report
 Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.
 Fred. A. Ferguson