

REPORT ON BOILERS.

No. 18953.

5 SEP 1928

Received at London Office

18/8/28
 Date of writing Report 18/8/28 When handed in at Local Office 19th SEPTEMBER 1928 Port of Greenock
 No. in Survey held at Greenock
 Reg. Book. S/S "Aelybryn"
 on the
 Master Built at Glasgow By whom built Littlejohn & Co. (811) When built 1928
 Engines made at Greenock By whom made Rankin & Blackmore (428) When made 1928
 Boilers made at ditto By whom made ditto (428) When made 1928.
 Registered Horse Power Owners Beynymor Skaustrup & Co. Port belonging to Swansea

MULTITUBULAR BOILERS—MAIN, —Manufacturers of Steel Wulhoubier Bergbau

Letter for record S) Total Heating Surface of Boilers 6489^{ft} Is forced draft fitted Yes No. and Description of
 Boilers 3 Single Ended 358 Working Pressure 200 Tested by hydraulic pressure to 350 Date of test 20.6.28

No. of Certificate 1831 Can each boiler be worked separately Yes Area of fire grate in each boiler 58^{ft} No. and Description of
 Safety valves to each boiler 2 Direct Spring Area of each valve 4.9^{sq} Pressure to which they are adjusted 205

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 1-4" Mean dia. of boilers 14-6" Length 11-6"

Material of shell plates S Thickness 15/16 Range of tensile strength 26-32 Are the shell plates welded or flanged
 Descrip. of riveting: cir. seams DR. long. seams TR. DBS Diameter of rivet holes in long. seams 13/8 Pitch of rivets 9 1/2

width of butt straps 1-8 1/4 Per centages of strength of longitudinal joint rivets 91.4 plate 85.5 Working pressure of shell by
 Rules 202 Size of manhole in shell 16 x 12 Size of compensating ring 34 1/2 x 29 3/4 x 15 1/6 No. and Description of Furnaces in each

Boiler 3 Corrugated Material S Outside diameter 3-9 1/4 Length of plain part top Thickness of plates crown 19 1/2 bottom 13 1/2
 Description of longitudinal joint weld. No. of strengthening rings Working pressure of furnace by the rules 205 Combustion chamber

Plates: Material S Thickness: Sides 23/32 Back 23/32 Top 23/32 Bottom 24/32 Pitch of stays to ditto: Sides 8 1/8 x 10 1/4 Back 9 1/4 x 9 1/2
 Top 10 3/8 x 8 3/4 If stays are fitted with nuts or riveted heads Auto Working pressure by rules 201. Material of stays S Area at

Smallest part 203 1/2 Area supported by each stay 64.84 Working pressure by rules 207 End plates in steam space: Material S Thickness 15/16
 Pitch of stays 19 1/2 x 18 1/2 How are stays secured DN Working pressure by rules 201. Material of stays S Area at smallest part 4.24

Area supported by each stay 260.7 Working pressure by rules 202 Material of Front plates at bottom S Thickness 1" Material of
 Lower back plate S Thickness 7/8 Greatest pitch of stays 13 1/4 Working pressure of plate by rules 206 Diameter of tubes 2 3/4

Pitch of tubes 3 1/2 x 3 1/8 Material of tube plates S Thickness: Front 1" Back 3/4 Mean pitch of stays 9.7 Pitch across wide
 Water spaces 13 1/2 Working pressures by rules 204 Girders to Chamber tops: Material S Depth and thickness of

Order at centre 9 3/4 x 13 1/6 Length as per rule 34.62 Distance apart 10 3/16 Number and pitch of Stays in each 3 at 8 3/4
 Working pressure by rules 203 Steam dome: description of joint to shell % of strength of joint

Diameter Thickness of shell plates Material Description of longitudinal joint Diam. of rivet holes
 Pitch of rivets Working pressure of shell by rules Crown plates Thickness How stayed

SUPERHEATER. Type Date of Approval of Plan Tested by Hydraulic Pressure to
 Date of Test Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler

Diameter of Safety Valve Pressure to which each is adjusted Is Easing Gear fitted

The foregoing is a correct description,
 RANKIN & BLACKMORE, LD. Manufacturer.
 J. H. Rankin Director.

Is the approved plan of boiler forwarded herewith Yes
 Total No. of visits

Dates of Survey During progress of work in shops - -
 while building During erection on board vessel - - -

See Machinery Report

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 & material are of good quality. They are now securely fixed on board. (See Rept. accompanying trial of the Machinery)

Survey Fee Charged or Money kept : When applied for, 19.
 : When received, 19.

W. Gordon-Mitchell
 Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute
 Assigned See accompanying report. W.M.

GLASGOW 4-SEP-1928

Lloyd's Register
 WH28-0248