

REPORT ON BOILERS.

No. 19310

Received at London Office

25 MAR 1931

Date of writing Report 14.1.31 When handed in at Local Office 19th March 1931 Port of Limerick
 No. in Reg. Book. 141 Survey held at Limerick Date, First Survey 14th May 1930 Last Survey 14th March 1931
 S/S "British Prestige" (Number of Visits 1) Gross 4106.40 Net 4180.23
 Master Built at Glasgow By whom built Lettgow L^a Yard No. 850 When built 1931
 Engines made at Limerick By whom made John Littlewood L^a Engine No. 1764 When made 1931
 Boilers made at ditto By whom made ditto Boiler No. 1764 When made 1931
 Owners British Tankers L^a Port belonging to London
 Nominal Horse Power

MULTITUBULAR BOILERS MAIN, AUXILIARY, OR DONKEY

Manufacturers of Steel Limerick - Glasgow Reservoirs (Letter for Record S)
 Total Heating Surface of Boilers 2244 Is forced draught fitted yes Coal or Oil fired Oil
 No. and Description of Boilers one Single Ended Working Pressure 150
 Tested by hydraulic pressure to 245 Date of test 30.12.30 No. of Certificate 2000 Can each boiler be worked separately yes
 Area of Firegrate in each Boiler Oil Fuel No. and Description of safety valves to each boiler Babcock's High Lift (Double)
 Area of each set of valves per boiler {per Rule 13.62 as fitted 14.137 Pressure to which they are adjusted 155 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 1-6 Is oil fuel carried in the double bottom under boilers no
 Smallest distance between shell of boiler and tank top plating 1-6 Is the bottom of the boiler insulated yes
 Largest internal dia. of boilers 12.11 1/8" Length 11-6" Shell plates: Material S Tensile strength 29.33
 Thickness 7/8" Are the shell plates welded or flanged Description of riveting: circ. seams {end DR inter. 2.853
 long, seams TR & DBS Diameter of rivet holes in {circ. seams 15 1/16 7/8 Pitch of rivets {plate 6 3/4 rivets
 Percentage of strength of circ. end seams {plate 67.4 rivets 43.4 Percentage of strength of circ. intermediate seam {plate rivets
 Percentage of strength of longitudinal joint {plate 86.1 rivets 86.6 Working pressure of shell by Rules 155
 combined 89.62
 Thickness of butt straps {outer 21/32 inner 20/32 No. and Description of Furnaces in each Boiler 2 Deighton
 Material S Tensile strength 26-30 Smallest outside diameter 3.27 1/8"
 Length of plain part {top 7/16 bottom 7/16 Description of longitudinal joint weld
 Dimensions of stiffening rings on furnace or c.c. bottom Working pressure of furnace by Rules 161
 End plates in steam space: Material S Tensile strength 26.30 Thickness 1 1/16" Pitch of stays 20" x 16 1/2"
 How are stays secured DN Washers Working pressure by Rules 155
 Tube plates: Material {front S back S Tensile strength 26.30 Thickness 1 1/16"
 Mean pitch of stay tubes in nests 10" Pitch across wide water spaces 13 3/4" Working pressure {front 148 back 164
 Girders to combustion chamber tops: Material S Tensile strength 29.33 Depth and thickness of girder
 at centre 8" x 3 1/4" (2) Length as per Rule 2-6.58 Distance apart 9 3/4" No. and pitch of stays
 in each 3 at 4 1/4" Working pressure by Rules 140 Combustion chamber plates: Material S
 Tensile strength 26.30 Thickness: Sides 1 1/16" Back 3/4" Top 1 1/16" Bottom 1 1/16"
 Pitch of stays to ditto: Sides 9 1/4" x 7 1/4" Back 9 x 8" Top 4 1/4" x 9 3/4" Are stays fitted with nuts or riveted over Riveted
 Working pressure by Rules 160 Front plate at bottom: Material S Tensile strength 26.30 Thickness 29/32
 Thickness 29/32 Lower back plate: Material S Tensile strength 26.30 Thickness 29/32
 Pitch of stays at wide water space 14" Are stays fitted with nuts or riveted over Riveted & nuts
 Working Pressure 156 Main stays: Material S Tensile strength 26.32
 Diameter {At body of stay, 2 5/8" No. of threads per inch 6 Area supported by each stay 330 sq in
 Over threads 150 Screw stays: Material S Tensile strength 26.30
 Working pressure by Rules 150 No. of threads per inch 9 Area supported by each stay 72 sq in
 Diameter {At turned off part, 1 1/2" Over threads

Working pressure by Rules 144 Are the stays drilled at the outer ends No Margin stays: Diameter 13/4
 No. of threads per inch 9 Area supported by each stay 110" Working pressure by Rules 164
 Tubes: Material Iron External diameter 23 1/4" Thickness 10 WG 1 1/4 - 5 1/16" No. of threads per inch 9
 Pitch of tubes 4" x 4" Working pressure by Rules 169 Manhole compensation: Size of opening in
 shell plate 16" x 30" Section of compensating ring 2-9" x 2-5" x 1" No. of rivets and diameter of rivet holes 38 at 1 1/8"
 Outer row rivet pitch at ends 8 Depth of flange if manhole flanged 3 1/2" Steam Dome: Material
 Tensile strength 50000 Thickness of shell 1 1/4" Description of longitudinal joint
 Diameter of rivet holes 1 1/8" Pitch of rivets 4" Percentage of strength of joint 100%
 Internal diameter 20" Working pressure by Rules 164 Thickness of crown 1 1/4" No. and diameter of
 stays 1 Inner radius of crown 10" Working pressure by Rules 169
 How connected to shell Direct Size of doubling plate under dome 16" x 30" Diameter of rivet holes and pitch
 of rivets in outer row in dome connection to shell 38 at 1 1/8"

Type of Superheater

Number of elements 1 Material of tubes Iron Manufacturers of Steel castings Tubes
 Material of headers Iron Tensile strength 50000 Thickness 1 1/4" Internal diameter and thickness of tubes
 the boiler be worked separately Is a safety valve fitted to every part of the superheater which can be shut off from the boiler
 Area of each safety valve Are the safety valves fitted with easing gear Working pressure as per
 Rules Pressure to which the safety valves are adjusted Hydraulic test pressure:
 tubes castings and after assembly in place Are drain cocks or valves fitted
 to free the superheater from water where necessary Yes
 Have all the requirements of Sections 14 to 23 inclusive for boilers been complied with Yes

The foregoing is a correct description,
 For JOHN G. KINCAID & CO. LIMITED. Director. Manufacturer.

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

SEE MACHINERY REPORT

Are the approved plans of boiler forwarded herewith
 (If not state date of approval.)
 Total No. of visits 1

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.)

This boiler has been built under special survey in accordance with the approved plans, the workmanship, material are of good quality, it is now securely fitted on board.
 (Boiler duplicate of K.B.3 "British Resource" built 1930)

Survey Fee £
 Charged on Boiler
 Travelling expenses (if any) £

When applied for, 192
 When received, 192

W. Gordon-Mitchie

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute GLASGOW 24 MAR 1931

Assigned SEE ACCOMPANYING MACHINERY REPORT.



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