

## REPORT ON BOILERS.

No.

118107

Received at London Office.

Date of writing Report 26.3.1949. When handed in at Local Office 25 April 1949. Port of Ipswich.  
No. in Reg. Book. Survey held at Lowestoft. Date, First Survey 13 Dec 1948. Last Survey 24 March 1949.  
on the Steam Launch "BRACON GLEN" (Number of Visits 12) Tons Gross Net.  
Master ✓ Built at Lowestoft. By whom built Richards Ironworks Ltd. Yard No. 377. When built 1949.  
Engines made at Hull. By whom made Amos & Smith Ltd. Engine No. 746. When made 1945.  
Boilers made at Brunock. By whom made Kinnaird & Co. Boiler No. 345. When made 1948.  
Nominal Horse Power M.H. 174. Owners The Boston Deep Sea & Ice Fishing Co. Ltd. Port belonging to Fleetwood.

## MULTITUBULAR BOILERS—MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel (Letter for Record)  
Total Heating Surface of Boilers Is forced draught fitted *Yes* Coal or Oil fired *Oil*  
No. and Description of Boilers Working Pressure 200 lb. 0"  
Tested by hydraulic pressure to Date of test No. of Certificate Can each boiler be worked separately  
Area of Firegrate in each Boiler No. and Description of safety valves to each boiler 2 - 2 3/4" Spring loaded. Improved lift  
Area of each set of valves per boiler { per Rule as fitted 11.90" Pressure to which they are adjusted 200 lb. 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 15" Is oil fuel carried in the double bottom under boilers *No*  
Smallest distance between shell of boiler and tank top plating 12" Is the bottom of the boiler insulated *Yes*  
Largest internal dia. of boilers Length Shell plates: Material Tensile strength  
Thickness Are the shell plates welded or flanged Description of riveting: circ. seams { end inter.  
long. seams Diameter of rivet holes in { circ. seams long. seams Pitch of rivets {  
Percentage of strength of circ. end seams { plate rivets Percentage of strength of circ. intermediate seam { plate rivets  
Percentage of strength of longitudinal joint { plate rivets combined Working pressure of shell by Rules  
Thickness of butt straps { outer inner No. and Description of Furnaces in each Boiler  
Material Tensile strength Smallest outside diameter  
Length of plain part { top bottom Thickness of plates { crown bottom Description of longitudinal joint  
Dimensions of stiffening rings on furnace or c.c. bottom Working pressure of furnace by Rules  
End plates in steam space: Material Tensile strength Thickness Pitch of stays  
How are stays secured Working pressure by Rules  
Tube plates: Material { front back Tensile strength Thickness  
Lean pitch of stay tubes in nests Pitch across wide water spaces Working pressure { front back  
Girders to combustion chamber tops: Material Tensile strength Depth and thickness of girder  
at centre Length as per Rule Distance apart No. and pitch of stays  
in each Working pressure by Rules Combustion chamber plates: Material  
Tensile strength Thickness: Sides Back Top Bottom  
Pitch of stays to ditto: Sides Back Top Are stays fitted with nuts or riveted over  
Working pressure by Rules Front plate at bottom: Material Tensile strength  
Thickness Lower back plate: Material Tensile strength Thickness  
Pitch of stays at wide water space Are stays fitted with nuts or riveted over  
Working pressure Main stays: Material Tensile strength  
Diameter { At body of stay or Over threads No. of threads per inch Area supported by each stay  
Working pressure by Rules Screw stays: Material Tensile strength  
Diameter { At turned off part or Over threads No. of threads per inch Area supported by each stay



REPORT ON BOILERS

Working pressure by Rules..... Are the stays drilled at the outer ends..... Margin stays: Diameter <sup>At turned off part,</sup> <sub>or</sub> <sup>Over threads.</sup>  
No. of threads per inch..... Area supported by each stay..... Working pressure by Rules.....  
Tubes: Material..... External diameter <sup>Plain</sup> <sub>Stay</sub>..... Thickness..... No. of threads per inch.....  
Pitch of tubes..... Working pressure by Rules..... Manhole compensation: Size of opening.....  
shell plate..... Section of compensating ring..... No. of rivets and diameter of rivet holes.....  
Outer row rivet pitch at ends..... Depth of flange if manhole flanged..... Steam Dome: Material.....  
Tensile strength..... Thickness of shell..... Description of longitudinal joint.....  
Diameter of rivet holes..... Pitch of rivets..... Percentage of strength of joint <sup>Plate</sup> <sub>Rivets</sub>.....  
Internal diameter..... Working pressure by Rules..... Thickness of crown..... No. and diameter  
stays..... Inner radius of crown..... Working pressure by Rules.....  
How connected to shell..... Size of doubling plate under dome..... Diameter of rivet holes and pitch  
of rivets in outer row in dome connection to shell.....

Type of Superheater..... Manufacturers of <sup>Tubes</sup> <sub>Steel forgings</sub> <sub>Steel castings</sub>.....  
Number of elements..... Material of tubes..... Internal diameter and thickness of tubes.....  
Material of headers..... Tensile strength..... Thickness..... Can the superheater be shut off a  
the boiler be worked separately *In*..... Is a safety valve fitted to every part of the superheater which can be shut off from the boiler *In*.....  
Area of each safety valve *5.9 sq. ft.*..... Are the safety valves fitted with easing gear *In*..... Working pressure as p  
Rules *200 lb. sq. in.*..... Pressure to which the safety valves are adjusted *206 lb. sq. in.*..... Hydraulic test pressu  
tubes *✓*..... forgings and castings..... and after assembly in place *600 lb. sq. in.*..... Are drain cocks  
valves fitted to free the superheater from water where necessary *In*.....

Have all the requirements of Sections 14 to 22 inclusive for boilers been complied with *In*.....

The foregoing is a correct description,

*J. Conway*  
For JOHN G. KILPATRICK & CO., LIMITED, Manufacturers

Dates of Survey <sup>During progress of</sup> <sub>work in shops - -</sub>..... Are the approved plans of boiler and superheater forwarded herewith  
while building <sup>During erection on</sup> <sub>board vessel - -</sub> *1948: Dec 13 - 1949: 24 Mar*..... (If not state date of approval.)  
Total No. of visits *12*.....

Is this Boiler a duplicate of a previous case *In*..... If so, state Vessel's name and Report No. *"BOSTON TYPHOON"*.....

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

*For the information of the Committee.*

Survey Fee ... .. £ : : } When applied for.....19.....  
Travelling Expenses (if any) £ : : } When received.....19.....

*Myrall*  
Engineer Surveyor to Lloyd's Register of Shipping

Committee's Minute.....

Assigned *See F.E. mch. spk*.....

FRI, 20 MAY 1949



© 2021

Lloyd's Register  
Foundation