

REPORT ON BOILERS.

No. 131213

Received at London Office 119 JUL 1950

Port of Liverpool
 Date, First Survey 1/9/48 Last Survey 16/6/50
 (Number of Visits 259)
 Gross 8640
 Net 4933
 on the BRITISH TRUST
 By whom built Cannell, Laird & Co. Ltd. Yard No. 1200 When built 1950
 Engines made at Greenock By whom made John G. Kincaid & Co. Ltd. Engine No. 11226 When made 1950
 Boilers made at Birkenhead By whom made Cannell, Laird & Co. Ltd. Boiler No. 1200 When made 1950
 Indicated Horse Power 337.5 Owners British Tanker Co. Ltd. Port belonging to London

ULTITUBULAR BOILERS ~~MAIN~~, ~~AUXILIARY~~, OR DONKEY.

Manufacturers of Steel Appleby-Frodingham (Letter for Record S)
 Total Heating Surface of Boilers 4050 $\sqrt{f} = 26$ hrs. Of Superheaters ✓
 Total for Register Book 4050 \sqrt{f} Is forced draught fitted yes Coal or Oil fired oil
 No. and Description of Boilers Two single ended cylindrical return tube Working Pressure 150 lb
 Tested by hydraulic pressure to 275 lb Date of test 30-1-50 No. of Certificate 2765, 2766 Can each boiler be worked separately yes
 Area of Firegrate in each Boiler ✓ No. and Description of safety valves to each boiler one 2 1/2" double improved lift type
 Area of each set of valves per boiler { per Rule 7.66 sq" as fitted 9.82 sq" Pressure to which they are adjusted 150 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 none seen Is oil fuel carried in the double bottom under boilers no
 Smallest distance between shell of boiler and tank top plating ✓ Is the bottom of the boiler insulated yes
 Largest internal dia. of boilers 13'-0" Length 11'-6" Shell plates: Material Steel Tensile strength 29/33 T/A
 Fusion welded, state name of welding Firm ✓ Have all the requirements of the Rules for Class I vessels ✓
 Have complied with ✓ Thickness 3/8" Are the shell plates welded or flanged no Description of riveting: circ. seams { end DR lap inter ✓
 Long. seams TR. Double Butt Straps Diameter of rivet holes in { circ. seams 15/16" long. seams 15/16" Pitch of rivets { 2.567" 6 1/2"
 Percentage of strength of circ. end seams { plate 63 rivets 48 Percentage of strength of circ. intermediate seam { plate ✓ rivets ✓
 Percentage of strength of longitudinal joint { plate 85-87 rivets 90 combined 89
 Thickness of butt straps { outer 1 1/8" inner 1 1/8" No. and Description of Furnaces in each Boiler Two Single
 Material Steel Tensile strength 26/30 T/A Smallest outside diameter 47"
 Length of plain part { top ✓ bottom ✓ Thickness of plates 17/32" Description of longitudinal joint Weld
 Dimensions of stiffening rings on furnace or c.c. bottom ✓

End plates in steam space: Material Steel Tensile strength 26/30 T/A Thickness 1" Pitch of stays 18 1/4" x 15 3/4"
 How are stays secured Double nut, small washers
 Tube plates: Material { front Steel back Steel Tensile strength { 26/30 T/A 26/30 T/A Thickness { 13/16" 2 5/32"
 Lean pitch of stay tubes in nests 9 3/8" Pitch across wide water spaces 13 1/2"
 Girders to combustion chamber tops: Material Steel Tensile strength 28/32 T/A Depth and thickness of girder
 Centre 12 x 1 1/8" Length as per Rule 34.53 Distance apart 9 5/8" No. and pitch of stays
 Each assumed 3 2 8" WELDED Combustion chamber plates: Material Steel
 Tensile strength 26/30 T/A Thickness: Sides 1/16" Back 1/16" Top 1/16" Bottom 7/8"
 Pitch of stays to ditto: Sides 9" x 8" Back 8 1/2" x 7 1/8" Top Welded Are stays fitted with nuts or riveted over riveted
 Front plate at bottom: Material Steel Tensile strength 26/30 T/A
 Thickness 13/16" Lower back plate: Material Steel Tensile strength 26/30 T/A Thickness 13/16"
 Pitch of stays at wide water space 14 1/2" x 8 1/2" Are stays fitted with nuts or riveted over Riveted, hanger nutted
 Main stays: Material Steel Tensile strength 28/32 T/A
 Diameter { At body of stay 2 1/2" No. of threads per inch 6
 { Over threads ✓
 Crew stays: Material Steel Tensile strength 26/30 T/A
 Diameter { At turned off part 1 1/2" No. of threads per inch 9
 { Over threads ✓

Are the stays drilled at the outer ends. 20 ✓ Margin stays: Diameter { At turned off part or Over threads... 1 5/8"
No. of threads per inch 9 ✓
Tubes: Material Steel External diameter { Plain... 2 1/2" ✓ Stay... 2 1/2" ✓ Thickness { 10 W.G. ✓ 5/16" + 3/8" No. of threads per inch 9 ✓
Pitch of tubes 3 3/4" x 3 1/16" ✓ Manhole compensation: /Size of opening 54, 1 5/16"
shell plate 21 x 17 ✓ Section of compensating ring 20 x 1 ✓ No. of rivets and diameter of rivet holes 54, 1 5/16"
Outer row rivet pitch at ends 6 1/2" ✓ Depth of flange if manhole flanged 3 1/2" ✓ Steam Dome: Material Steel
Tensile strength... ✓ Thickness of shell... ✓ Description of longitudinal joint... ✓
Diameter of rivet holes... ✓ Pitch of rivets... ✓ Percentage of strength of joint... ✓
Internal diameter... ✓ Thickness of crown... ✓ No. and diameter of rivets... ✓
stays... ✓ Inner radius of crown... ✓
How connected to shell... ✓ Size of doubling plate under dome... ✓ Diameter of rivet holes and
of rivets in outer row in dome connection to shell... ✓

Type of Superheater... ✓ Manufacturers of... ✓
Number of elements... ✓ Material of tubes... ✓ Internal diameter and thickness of tubes... ✓
Material of headers... ✓ Tensile strength... ✓ Thickness... ✓ Can the superheater be shut off
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... ✓
Pressure to which the safety valves are adjusted... ✓ Hydraulic test pressure... ✓
tubes... ✓ forgings and castings... ✓ and after assembly in place... ✓ Are drain cocks
valves fitted to free the superheater from water where necessary... ✓
Have all the requirements of Sections 14 to 22 inclusive for boilers been complied with... Yes ✓

The foregoing is a correct description of the boiler and superheater as shown on the drawings and as described in the report of the Engineer Surveyor to Lloyd's Register of Shipping.
E. Stewart Manufacture

Dates of Survey { During progress of work in shops - - See Mch report. Are the approved plans of boiler and superheater forwarded herewith (If not state date of approval.)
while building { During erection on board vessel - - -
Total No. of visits... 1

Is this Boiler a duplicate of a previous case... Yes If so, state Vessel's name and Report No. British Triumph

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) These boilers have been built under Special Survey in accordance with Approved Plans, the Society's Rules and the Secretary's letters. The materials and workmanship are good. They have been properly installed and tried under working conditions with satisfactory results. They are eligible, in my opinion, for Classification.

[Faint handwritten notes and stamps in the middle section]

Survey Fee ... £ : : } When applied for... 19...
Travelling Expenses (if any) £ : : } When received... 19...
See Rpt. 46.
See Minutes on Lis. R. Mch. Rpt.

Committee's Minute LIVERPOOL 18 JUL 1950
Assigned... See Minutes on Lis. R. Mch. Rpt.
Engineer Surveyor to Lloyd's Register of Shipping
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