

Boiler D.611.

MOB. RPT. No. 19062.

B.C. VESSEL.

RECEIVED
Rpt. 50150
11 JAN 1950

REPORT ON WATER TUBE BOILERS.

No. 19102.

Received at London Office 5 JAN 1950

Report 4-1-1950 When handed in at Local Office 4-1-1950 Port of West Hartlepool
No. in Survey held at West Hartlepool Date, First Survey 16th August Last Survey 12th December 1949
Reg. Bk. on the 5/W "SOUTHERN GAMBLER" (Number of Visits 12) Tons { Gross 440
Net 152
Built at South Bank on Tees By whom built Smiths Dock Co Ltd When built 1950
Engins made at do By whom made do When made 1950
Boilers made at West Hartlepool By whom made Richardsons Westgirth & Co Ltd When made 1950
Nominal Horse Power 1200 Owners The South Georgia Co. Ltd Port belonging to LEITH

WATER TUBE BOILERS—MAIN, AUXILIARY, OR DONKEY.—Manufacturers of Steel
Date of Approval of plan 1-5-47 Designed from 245 lbs Number and Description or Type S-23-11-49
of Boilers 2- Foster Wheeler W.T. Boilers Working Pressure 220 lbs Tested by Hydraulic Pressure to 418 lbs Date of Test 12-12-49
No. of Certificate 4109 Can each boiler be worked separately Yes Total Heating Surface of Boilers 2545 sq. ft.
Is forced draught fitted Yes Area of fire grate (coal) in each Boiler 2- Swinney's
No. and type of burners (oil) in each boiler 2- Swinney's No. and description of safety valves on
each boiler 1- Single Spring H.L. (Cochburn) Area of each set of valves per boiler { per rule 9.430" Pressure to which they
are adjusted 240 lbs/sq. in. Are they fitted with easing gear Yes In case of donkey boilers state whether steam from main boilers can enter
the donkey boiler None Smallest distance between boilers or uptakes and bunkers or woodwork 2'-8" Height of boiler 15'-3 1/4"
Width and Length 9'-10 1/2" x 11'-6 1/8" Steam Drums:—Number in each boiler One Inside diameter 3'-6"
Thickness of plates 1 3/16" Range of Tensile Strength 28-32 tons Are drum shell plates welded
or flanged Welded If fusion welded, state name of welding firm Broomside Boiler Works Have all the requirements of the rules
for Class I vessels been complied with Yes Description of riveting:—Cir. seams — long. seams —
Diameter of rivet holes in long. seams — Pitch of rivets — Thickness of straps — Percentage strength of
long. joint:—Plate — Rivet 3" P = 333% Diameter of tube holes in drum 2' x 1 1/2" Pitch of tube holes 3' x 1 3/4"
Percentage strength of shell in way of tubes 13 1/4 P = 35.7% Steam Drum Heads or Ends:—Range of tensile strength 26-30 tons
Thickness of plates 1 3/16" Radius or how stayed 3'-5 3/8" inside Size of manhole or handhole 16" x 12" Water Drums:—Number
in each boiler One Inside Diameter 2'-5 3/8" Thickness of plates 1 3/16" Range of tensile strength 28-32 tons Are drum shell plates
welded or flanged Welded If fusion welded, state name of welding firm Broomside Boiler Works Have all the requirements of the rules
for Class I vessels been complied with Yes Description of riveting:—Cir. seams — long. seam —
Diameter of rivet holes in long. seams — Pitch of rivets — Thickness of straps —
Percentage strength of long. joint:—Plate — Rivet 3" P = 333% Diameter of tube holes in drum 2' x 1 1/2" Pitch of tube holes 3' x 1 3/4"
Percentage strength of drum shell in way of tubes 13 1/4 P = 35.7% Water Drum Heads or Ends:—Range of Tensile strength 26-30 tons
Thickness of plates 1 3/16" Radius or how stayed 2'-5 3/8" Radius Size of manhole or handhole 16" x 12"
Headers or Sections:—Number — Material — Thickness — Tested by Hydraulic Pressure to —
Tubes:—Diameter — Thickness — Number — **Steam Dome or Collector:**—Description of
Joint to Shell — Inside diameter — Thickness of shell plates — Range of tensile
strength — Description of longitudinal joint — If fusion welded, state name of welding
firm — Have all the requirements of the rules for Class I vessels been complied with — Diameter of rivet holes —
Pitch of rivets — Thickness of straps — Percentage strength of long. joint — Plate — Rivet —
Crown or End Plates:—Range of tensile strength — Thickness — Radius or how stayed —
SUPERHEATER. Drums or Headers:—Number in each boiler Two Inside Diameter 5 1/2" x 4 1/2"
Thickness 3/4" Material Mild Steel Range of tensile strength 28-32 tons Are drum shell plates welded
or flanged Welded If fusion welded, state name of welding firm Foster Wheeler Have all the requirements of the rules
for Class I vessels been complied with Yes Description of riveting:—Cir. seams — long. seams —
Diameter of rivet holes in long. seams — Pitch of rivets — Thickness of straps — Percentage strength of
long. joint:—Plate — Rivet — Diameter of tube holes in drum 1 1/2" x 1 1/2" Pitch of tube holes 1 3/16" Percentage strength of
drum shell in way of tubes — **Drum Heads or Ends:**—Thickness 1 3/8" Range of tensile strength 28-32 tons
Radius or how stayed — Size of manhole or handhole 20 1/2" x 20 1/2" Number, diameter, and thickness of tubes 88-1 1/2" OD x 11 1/4"
Tested by Hydraulic Pressure to 425 lbs Date of Test — Is a safety valve fitted to each section of the superheater which
can be shut off from the boiler — No. and description of Safety Valves One - Double Spring High Lift Area of each set
of valves 6.3" D" Pressure to which they are adjusted 225 lbs/sq. in. Is easing gear fitted Yes
Spare Gear. Has the spare gear required by the rules been supplied —

The foregoing is a correct description,
RICHARDSONS, WESTGARTH & CO. LIMITED
W.E. D. Dudgeon Manufacturer.

Dates of Survey { During progress of 1949 Aug. 16-23-25-29-Sept. 8- Oct. 3-13-21- Is the approved plan of boiler forwarded herewith — DIRECTOR
while building { work in shops - - - Nov. 2-15-23-Dec. 12-
{ During erection on board vessel - - -
Total No. of visits 12

Is this boiler a duplicate of a previous case Yes If so, state vessel's name and report No. Hpl Rpt no 19077.

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) These boilers have been constructed under Spec. Survey in accordance with approved plans & Rules of British Corporation Register for a working pressure of 220 lbs. The materials & workmanship are good. On completion they were tested by hydraulic pressure of 418 lbs & found sound & tight.

Survey Fee ... £ 67 : — : When applied for, 4-1-1950
Travelling Expenses (if any) £ : : When received, 19

Committee's Minute
Assigned See F.E. mch. rpt.

ShWood
Engineer Surveyor to Lloyd's Register of Shipping.

The Boilers have been despatched to Middlesbrough for installation
on board the vessel,

| | | | |
|--|------|--------|----|
| Port Steam Drum | 7845 | 7-3-49 | PM |
| Port Water Drum | 7844 | 7-3-49 | PM |
| Starb Steam Drum | 7846 | 7-3-49 | PM |
| Starb Water Drum | 7843 | 7-3-49 | PM |
| Port & Starb Superheater Headers D 19021 22-4-49 | | | |

These boilers have been severely fitted and examined under working conditions.
They were found to be entirely satisfactory and the safety valves were
adjusted as stated overleaf.

J. C. Smith



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