

REPORT ON WATER TUBE BOILERS.

SUNDERLAND RPT. No. 35815

No. 19297

Received at London Office

21 NOV 1951

Report 20-11-19 51 When handed in at Local Office 20-11-19 51. Port of West Hartlepool
 Survey held at West Hartlepool Date, First Survey 26th January, Last Survey 26th October, 1951
 on the CALTEX TANGANYIKA (Number of Visits 21) Tons { Gross 8513
Sunderland Net 1809
 Made at West Hartlepool By whom built Wm Doxford & Sons Ltd When built 1952
 Made at West Hartlepool By whom made Richardsons, Westgarth & Co Ltd When made 1951
 Horse Power M.N 288 each Owners Overseas Tankship (U.K.) Ltd Port belonging to London

R TUBE BOILERS—MAIN, AUXILIARY, OR DONKEY.—Manufacturers of Steel

Approval of plan DESIGN PRESS 250 lbs Number and Description or Type
Two Foster-Wheeler W.T. Boilers Working Pressure 220 lbs Tested by Hydraulic Pressure to 425 lbs Date of Test 11-10-51
 Certificate 4152 Can each boiler be worked separately Yes Total Heating Surface of Boilers 3460 each boiler
 Draught fitted Yes Area of fire grate (coal) in each Boiler —
 Type of burners (oil) in each boiler Two Todds system No. and description of safety valves on
2" Single Spring Cockburn high lift Area of each set of valves per boiler { per rule
Super 230 as fitted 3.14 Pressure to which they
 are fitted 250 Are they fitted with easing gear Yes In case of donkey boilers state whether steam from main boilers can enter
 boiler — Smallest distance between boilers or uptakes and bunkers or woodwork — Height of boiler 16'-8 9/16"
 Length 10'-4 1/16" x 11'-6 3/4" Steam Drums:—Number in each boiler One Inside diameter 3'-5 3/4"
 of plates 1 5/16" Range of Tensile Strength 28/32 Tons Are drum shell plates welded
Welded If fusion welded, state name of welding firm Marshall & Anderson Ltd Motherwell Have all the requirements of the rules
 Vessels been complied with Yes Description of riveting:—Cir. seams — long. seams —
 of rivet holes in long. seams — Pitch of rivets — Thickness of straps — Percentage strength of
 :—Plate — Rivet — Diameter of tube holes in drum 2" 1 1/8" Pitch of tube holes 3" x 1 3/4"
 e strength of shell in way of tubes 3 3/4" = 33 3/4% Steam Drum Heads or Ends:—Range of tensile strength 26/30 Tons
 of plates 1 5/16" Radius or how stayed 3'-5 3/4" inside Size of manhole or handhole 16" x 12" Water Drums:—Number
 per One Inside Diameter 2'-5 1/2" Thickness of plates 1 1/8" Range of tensile strength 28/32 Tons Are drum shell plates
 flanged Welded If fusion welded, state name of welding firm Marshall & Anderson Motherwell Have all the requirements of the rules
 Vessels been complied with Yes Description of riveting:—Cir. seams — long. seam —
 of rivet holes in long. seams — Pitch of rivets — Thickness of straps —
 e strength of long. joint:—Plate — Rivet — Diameter of tube holes in drum 2" 1 1/8" Pitch of tube holes 3" x 1 3/4"
 e strength of drum shell in way of tubes 3 3/4" = 33 3/4% Water Drum Heads or Ends:—Range of Tensile strength 26/30 Tons
 of plates 1 1/8" Radius or how stayed 2'-5 1/2" inside Size of manhole or handhole 16" x 12"
 or Sections:—Number — Material — Thickness — Tested by Hydraulic Pressure to —
 Diameter 1 1/8" O.D. Thickness 8 W.G. Number 803 per boiler Steam Dome or Collector:—Description of
 Shell — Inside diameter — Thickness of shell plates — Range of tensile
 Description of longitudinal joint — If fusion welded, state name of welding
 Have all the requirements of the rules for Class I vessels been complied with — Diameter of rivet holes —
 rivets — Thickness of straps — Percentage strength of long. joint — Plate — Rivet —
 End Plates:—Range of tensile strength — Thickness — Radius or how stayed —
 HEATER. Drums or Headers:—Number in each boiler One Inside Diameter 5 1/4" x 4 1/2" inside
3/4" Material Mild Steel Range of tensile strength 28/32 Tons Are drum shell plates welded
Welded If fusion welded, state name of welding firm Foster Wheeler Ltd Have all the requirements of the rules
 Vessels been complied with Yes Description of riveting:—Cir. seams — long. seams —
 of rivet holes in long. seams — Pitch of rivets — Thickness of straps — Percentage strength of
 :—Plate — Rivet — Diameter of tube holes in drum 2" 1 1/8" Pitch of tube holes 3 1/4" Percentage strength of
 in way of tubes 38.4% Drum Heads or Ends:—Two Thickness 1 3/8" Range of tensile strength 28/32 Tons
 how stayed — Size of manhole or handhole 2.030 + .003 Number, diameter, and thickness of tubes 12-2" O.D. x 7 W.G.
 Hydraulic Pressure to — Date of Test — Is a safety valve fitted to each section of the superheater which
 cut off from the boiler — No. and description of Safety Valves One 2" Double Spring Cockburn High Lift Area of each set
6.3 sq. ins. Pressure to which they are adjusted — Is easing gear fitted Yes

Gear. Has the spare gear required by the rules been supplied

The foregoing is a correct description,

RICHARDSON, WESTGARTH & CO. LIMITED

Manufacturer.

During progress of 1951. Jan. 26-29-31. Feb. 14-19. May 10-21-31. Is the approved plan of boiler forwarded herewith Retained
 work in shops - - - July 12. Aug. 8-16-27-28-31. Sept. 14. Oct. 1-11. for use of Duplicate contract
 During erection on 12. 15. 22. 26. Total No. of visits 21
 board vessel - - -

Is a duplicate of a previous case Yes. If so, state vessel's name and report No. 19295.

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) These boilers have been constructed
special survey in accordance with approved plans, Secretary's letter and the rules of
Society for a working pressure of 220 lbs. The materials and workmanship are good. On
test they were tested by hydraulic pressure to 425 lbs and found sound & tight

Fee ... £ 53 : 16 : 0 When applied for, 20-11-19 51. These boilers have been securely fixed on board
 Lling Expenses (if any) £ 32 : 14 : 0 When received, 19 S.S.V's adapted as
See App. 15/12 above

tee's Minute TUES. 8 JUL 1952 H. A. Wilson Engineer Surveyor to Lloyd's Register of Shipping.

ed See F.E. mch. rph Sld. 35815 Lloyd's Register
Foundation

004003-004008-0165