

REPORT ON WATER TUBE BOILERS.

SUNDERLAND RPT. NO. 35815

No. 19297

Received at London Office

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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, 19 51
on the CALTEX TANGANYIKA (Number of Visits 21) Tons Gross 8513 Net 4809
Sunderland By whom built Wm Doxford & Sons Ltd When built 1952
By whom made Wm Doxford & Sons Ltd When made 1952
West Hartlepool By whom made Richardsons, Westgarth & Co Ltd When made 1951
Horse Power M.N 288 each Owners Overseas Tankship (C.K.) Ltd Port belonging to London

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

Approval of plan DESIGN PRESS 220 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 lockburn high lift Area of each set of valves per boiler per rule as fitted 3.14 Pressure to which they

Are they fitted with easing gear Yes In case of donkey boilers state whether steam from main boilers can enter

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" x 1 1/8" Pitch of tube holes 3" x 1 3/4"

Strength of shell in way of tubes 3 3/4 = 33 3/5 % Steam Drum Heads or Ends:—Range of tensile strength 26/30 Tons

of plates 1 7/16" Radius or how stayed 3'-5 3/4" inside Size of manhole or handhole 16" x 12" Water Drums:—Number

One Inside Diameter 2'-5 1/2" Thickness of plates 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

Strength of long. joint:—Plate Rivet Diameter of tube holes in drum 2" x 1 1/8" Pitch of tube holes 3" x 1 3/4"

Strength of drum shell in way of tubes 3 3/4 = 35.7 % Water Drum Heads or Ends:—Range of Tensile strength 26/30 Tons

of plates 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 2" O.D. Thickness 8 W.G. 11 W.G. Number 155 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

of rivet holes in long. seams 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" x 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 x 7 W.G. 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 lockburn 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, RICHARDSONS, 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
completion 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
Billing Expenses (if any) £ 32 : 14 : 0 When received, 19. S.V.'s adopted as above

See Note 15/12 TUES. 8 JULY 1952 H. A. Wilson. Engineer Surveyor to Lloyd's Register of Shipping.

Director's Minute See F.E. mch. rph Sld. 35815: Lloyd's Register Foundation

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