

REPORT ON WATER TUBE BOILERS. No. 19880

28 APR 1958

Received at London Office

of writing Report 25-4-1958 When handed in at Local Office 25-4-1958 Port of WEST HARTLEPOOL
 in Survey held at Hartlepool Date, First Survey 22-11-57 Last Survey 3-4-1958
 Book 112 on the Waste Heat Foster Wheeler Water Tube Donkey Boiler for 4 1/2" STANVAC NAIROBI (Number of Visits 7)
 at By whom built Yard No. When built
 engines made at By whom made Engine No. When made
 ers made at West Hartlepool By whom made Richardson Westgarth Boiler No. D 650 When made 1958-3
 for Register Book 2250 ft² Owners Standard-Vacuum Transportation Co. Ltd Port belonging to London

ATER TUBE BOILERS—MAIN, AUXILIARY, OR DONKEY.—Manufacturers of Steel Messrs. Colvilles Ltd.
 te of Approval of plan 24/7/57 DESIGN PRESSURE 250 No. and Description or Type
 Boilers 1 Foster Wheeler Waste Heat Water Tube Boiler Working Pressure 200 Tested by Hydraulic Pressure to 4.25 Date of Test 2/4/58
 of Certificate 4277 HPL Can each boiler be worked separately Total Heating Surface of Boilers 2250 ft² Superheaters
 alf Economisers Is forced draught fitted Area of Fire Grate (coal) in each Boiler
 and type of burners (oil) in each boiler No. and description of safety valves on

ch boiler 1-2" lockburn double spring improved high lift Area of each set of valves per boiler per rule as fitted 6.28 in² Pressure to which they
 e adjusted Are they fitted with easing gear In case of donkey boilers state whether steam from main boilers can enter

e donkey boiler Smallest distance between boilers or uptakes and bunkers or woodwork Height of boiler 10' 5 1/2"

idth and length 7' 6" x 10' 1/4" Steam Drums:—Number in each boiler 1 Inside diameter 2' 6"

ickness of plates 3/4" Range of tensile strength 28-32 tons/in² Are drum shell plates welded

flanged welded If fusion welded, state name of welding firm Marshall & Anderson Have all the requirements of the Rules

r Class I vessels been complied with Yes Description of riveting:—Circ. seams long. seams

diameter of rivet holes in long. seams Pitch of rivets Thickness of straps Percentage strength of

ng. joint:—Plate Rivet 63.25 Diameter of tube holes in drum 2.015" Pitch of tube holes 5 1/2"

percentage strength of shell in way of tubes 63.6% Steam Drum Heads or Ends:—Range of tensile strength 26-30 tons/in²

ickness of plates 3/4" Radius or how stayed 2' 6" Size of manhole or handhole 16" x 12" Water Drums:—Number

each boiler None Inside diameter Thickness of plates Range of tensile strength Are drum shell plates

elded or flanged If fusion welded, state name of welding firm Have all the requirements of the Rules

r Class I vessels been complied with Description of riveting:—Circ. seams long. seams

diameter of rivet holes in long. seams Pitch of rivets Thickness of straps

ercent strength of long. joint:—Plate Rivet Diameter of tube holes in drum Pitch of tube holes

percentage strength of drum shell in way of tubes Water Drum Heads or Ends:—Range of tensile strength

f plates Radius or how stayed Size of manhole or handhole Tested by hydraulic pressure to 4.25 lbs/in²

Sections Number 2 Material Mild Steel Thickness 1" Number 50 'U' tubes Steam Dome or Collector:—Description of

oint to shell Inside diameter Thickness of shell plates Range of tensile

rength Description of longitudinal joint If fusion welded, state name of welding

rm Have all the requirements for the Rules for Class I vessels been complied with Diameter of rivet holes

itch of rivets Thickness of straps Percentage strength of long. joint plate rivet

own or End Plates:—Range of tensile strength Thickness Radius or how stayed

SUPERHEATER Drums or Headers:—Number in each boiler Inside diameter

Thickness Material Range of tensile strength Are drum shell plates welded

or flanged If fusion welded, state name of welding firm Have all the requirements of the Rules

for Class I vessels been complied with Description of riveting:—Circ. 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 Pitch of tube holes Percentage strength of

drum shell in way of tubes Drum Heads or Ends:—Thickness Range of tensile strength

Radius or how stayed Size of manhole or handhole Number, diameter, and thickness of tubes

Tested by hydraulic pressure to 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 Area of each set

of valves Pressure to which they are adjusted Is easing gear fitted

Spare Gear Has the spare gear required by the Rules been supplied Yes

FOR RICHARDSONS, WESTGARTH (HARTLEPOOL) LIMITED.

The foregoing is a correct description,

R. B. Hall

DIRECTOR Manufacturer.

Dates of Survey During progress of work in shops 1957 Nov. 22, 1958 March 21, 24, 26, 31 April 2, 3 Is the approved plan of boiler forwarded herewith Yes
 while building During erection on board vessel Total No. of visits 7

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

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c. This Waste Heat Water Tube boiler has been constructed under Special Survey in accordance with the Rules, the Approved Plans & the Secretary's letters. The material used has been tested according to the Rules and the workmanship is good, is eligible in our opinion to be fitted on board a vessel classed with the Society. The boiler has been despatched to Japan for fitting on board the 4 1/2" STANVAC NAIROBI

Survey Fee ... £ 33 : 15 : - When applied for 25-4-1958

Travelling Expenses (if any) £ : : When received 19

Date

Committee's Minute

Engineer Surveyor to Lloyd's Register of Shipping

003458-003465-0338