

REPORT ON WATER TUBE BOILERS.

M.B.B. Rpt. No 18954.

No. 23791

Received at London Office

31 DEC 1948

of writing Report 10th DEC. 1948 When handed in at Local Office 22nd DEC. 1948 Port of GREENOCK

Survey held at Date, First Survey 17th MARCH 1948 Last Survey 26th NOVEMBER 1948

Book. on the TWIN SCREW TANKER "GLESSULA" (Number of Visits 15) Gross 5017

at SOUTH BANK By whom built MESSRS SMITHS DOCK CO. LD. Yard No. 1186 Tons Net 2352

Lines made at SOUTH BANK By whom made BABCOCK & WILCOX LTD. Cont 4/1959 Engine No. 652 When made 1949

ers made at GREENOCK By whom made J. G. KINCAID & CO. LTD. Cont 351 Boiler No. 351 When made 1948

inal Horse Power 887 boiler only. Owners N.V. CURACADSCHIE SCHEEPVAART MAATSCHAPPIJ, EMMASTAD, CURACAO. Port belonging to WILLEMSTAD

TER TUBE BOILERS MAIN, AUXILIARY, OR DONKEY. Manufacturers of Steel Babcock & Wilcox supply.

of Approval of plan Steam & Water drum 24/4/47. Pressure parts & details of Headers & drums 27/5/47 No. and Description or Type

ilers 100 WT. B.W. type. Working Pressure 220 Tested by Hydraulic Pressure to 380 Date of Test 16.11.49

f Certificates 7292/3 Can each boiler be worked separately. YES Total Heating Surface of Boilers 10640

ced draught fitted 4/10 Area of Fire Grate (coal) in each Boiler

nd type of burners (oil) in each boiler S. SWINNEY Bros (Morpeth) SMITHS OF BURNING SYSTEM No. and description of safety valves on

boiler 1-3 1/2" DOUBLE HIGH LIFT. Area of each set of valves per boiler per rule as fitted 19.24 sq. ins. Pressure to which they

adjusted 220 lbs/sq. in. Are they fitted with easing gear YES In case of donkey boilers state whether steam from main boilers can enter

donkey boiler. Smallest distance between boilers or uptakes and bunkers or woodwork 2'-3" Height of boiler 17'-0"

and length 20'-0" & 16'-4" Steam Drums: Number in each boiler One Inside diameter 3'-6"

ness of plates Drum 9/16" tube plate 1 1/16" Range of tensile strength 32 tons Are drum shell plates welded

ged No. If fusion welded, state name of welding firm Have all the requirements of the Rules

ass I vessels been complied with Description of riveting:—Circ. seams DR. long. seams DR. DBS.

ter of rivet holes in long. seams 29/32" Pitch of rivets 3.491" Thickness of straps 9/16" Percentage strength of

joint:—Plate 74.7 Rivet 96.777 Diameter of tube holes in drum 4.056" Pitch of tube holes 7"

ntage strength of shell in way of tubes 42.057 Steam Drum Heads or Ends:—Range of tensile strength 26 tons

ness of plates 78" Radius or how stayed 3'-0" Size of manhole or handhole 16" x 12" Water Drums:—Number

h boiler Inside diameter Thickness of plates Range of tensile strength Are drum shell plates

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

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

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

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

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

ness of plates Radius or how stayed Size of manhole or handhole Tested by hydraulic pressure to 380 lbs/sq. in.

rs or Sections:—Number 29 ea. boiler Material Seamless Steel Thickness 1 1/32" Number 114 & 910 ea. boiler

—Diameter 1 1/16" Thickness 9.10 wgs. Number 114 & 910 ea. boiler Steam Dome or Collector:—Description of

shell Inside diameter Thickness of shell plates Range of tensile

h. Description of longitudinal joint If fusion welded, state name of welding

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

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

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

RHEATER, Drums or Headers:—Number in each boiler Inside diameter

Material Range of tensile strength Are drum shell plates welded

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

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

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

int:—Plate Rivet Diameter of tube holes in drum Pitch of tube holes Percentage strength of

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

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

by hydraulic pressure to Date of test Is a safety valve fitted to each section of the superheater which

shut off from the boiler No. and description of safety valves Area of each set

s Pressure to which they are adjusted Is easing gear fitted

Gear. Has the spare gear required by the Rules been supplied YES

The foregoing is a correct description,
for JOHN G. KINCAID & CO. LIMITED.
Chief Draughtsman.

Is the approved plan of boiler forwarded herewith YES

Total No. of visits 15

During progress of work in shops - (1948) MAR. 11, MAY 13, JUNE 30, AUG. 6, 19, 30, SEPT. 2, 8, 22, OCT. 1, 15, 22. Nov. 1-11-26.

During erection on board vessel -

Boiler a duplicate of a previous case Yes If so, state vessel's name and report No. Greenock FE No 23777

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c. These boilers have been constructed under Special

survey in accordance with the Rules & approved plans. The materials & workmanship are sound and

and. The boilers when completed & tested will be eligible to be fitted in a vessel classed in the

Register of Shipping. The boilers have been dispatched to Smiths Dock, Middlesbrough to be installed

in their Yard No 1186

Survey Fee GLASGOW £28 : 8 : 6 When applied for 17th DEC. 1948

Travelling Expenses (if any) £28 : 8 : 6 When received 29.12.1948

TOTAL 113 - 14 - 0

Date GLASGOW 30 DEC 1948

Engineer's Signature

Signature of Surveyor

Signature of Draughtsman

Signature of Inspector

The two steam drums (see Glasgow cert N° C 66089) have been drilled for the mounting pads & the pads bedded & rivetted, the drums were then tested by hydraulic pressure to 380 lbs/sq. in & found tight & sound, the tube holes were then drilled in the drums. The Headers (see Glasgow cert C 66093) have been assembled, tubes fitted and expanded, each header on completion was tested by hydraulic pressure.

The above together with the furnace framings, casings, air heaters, return tubes, header nipple tubes & downcomer tubes have been despatched to Smiths Dock Co Middlesbrough
Babcock & Wilcox will supply all mountings

Glasgow certificates & copies N° C 66089 & C 66093 are attached herewith.

Chas. H. Hunter

The erection of these boilers has been completed on board at Smiths Dock after which they were hydraulically tested to 380 lbs. per sq. in. and found satisfactory.

These boilers have been severely fitted and examined under working conditions and found satisfactory.

On completion the safety valves were adjusted to 220 lbs. per sq. in.

J. R. Smith