

REPORT ON WATER TUBE BOILERS.

No. 6134 (b)

Completed 8th Aug. 19 50 When handed in at Local Office 8th Aug. 19 50 Port of Halifax, N. S. Received at London Office 16 SEP 1950

Writing Report in Survey held at Halifax, N. S. Date, First Survey 28th Oct., 1949 Last Survey 26th July, 19 50

on the Steel Twin Screw Motorship "BAHIA THETIS" (Number of Visits 7) Gross 3830.75 Tons Net 2100.49

at Halifax, N. S. By whom built Halifax Shipyards, Ltd. Yard No. 18 When built 1950

ies made at Milwaukee, Wis. By whom made Nordberg Manufacturing Co. Engine No. TSM-2155 (Installed 1950)

rs made at St. Catharines, Ont. By whom made Foster Wheeler, Ltd. Boiler No. 1705 When made 1949

838 MN Owners Argentine Government Port belonging to Buenos Aires.

WASTE HEAT (Particulars also entered from Tto. Rpt. 5c No. 1330 forwarded herewith) MAIN, AUXILIARY, OR DONKEY. Manufacturers of Steel Shell-Carnegie Illinois Steel Corp. - Heads, The Steel Co. of Canada.

of Approval of plan Sept. 27th, 1948; Jan. 6th, 1949, Montreal. No. and Description or Type

ilers. One - Single Drum Waste Heat Working Pressure 50 lbs. Tested by Hydraulic Pressure to 160 lbs. Date of Test 22-2-49

f Certificate 1330 Can each boiler be worked separately (designed pressure 80 lbs.) Total Heating Surface of Boilers 1540 sq. ft.

ced draught fitted. No Area of Fire Grate (coal) in each Boiler -

nd type of burners (oil) in each boiler. None (Heated by exhaust gases) No. and description of safety valves on boiler. One 1 1/2" Twin Cockburn Morrison Hi-Lift Area of each set of valves per boiler (per rule - as fitted 3.5 sq. ins. Pressure to which they adjusted 50 lbs./sq. in. Are they fitted with easing gear Yes

onkey boiler (Motorship) Smallest distance between boilers or uptakes and bunkers or woodwork (No bunkers or woodwork near). In case of donkey boilers state whether steam from main boilers can enter

h and length 6'-7" x 10'-0 3/4" Steam Drums: Number in each boiler One Inside diameter 23 1/2"

tness of plates 7/16" Range of tensile strength 26 to 35 tons/sq. in. Are drum shell plates welded

nged. Welded If fusion welded, state name of welding firm Foster Wheeler Ltd., St. Catharines, Ont. Have all the requirements of the Rules

lass I vessels been complied with Yes Description of riveting: Circ. seams long. seams

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

joint: Plate Rivet Diameter of tube holes in drum 2.015" Pitch of tube holes 1" 1 1/2" & 6"

entage strength of shell in way of tubes 37.125% min. Steam Drum Heads or Ends: Range of tensile strength 26 to 30 tons/sq. in.

tness of plates 3/4" Radius or how stayed 23" Rad. Size of manhole or handhole 12" x 16" Water Drums: Number

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

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

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

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

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

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

tness of plates Radius or how stayed Size of manhole or handhole

ders or Sections: Number One Material 8" I.D. O.H. Thickness 7/8" Tested by hydraulic pressure to 160 lbs./sq. in.

es: Diameter 2" & 3" Thickness No. 9 & No. 8 B.M.C. Number Eight 2" & Two 3" Steam Dome or Collector: Description of

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

ngth 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

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

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

PERHEATER, Drums or Headers: Number in each boiler Inside diameter

tness Material Range of tensile strength Are drum shell plates welded

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

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

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

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

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

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

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

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

alves Pressure to which they are adjusted Is easing gear fitted

re Gear. Has the spare gear required by the Rules been supplied Yes

The foregoing is a correct description,

(Dates also entered from Tto. Rpt. 5c - No. 1330).

During progress of work in shops June 4, Sept. 2, 29, Nov. 9, 27, Dec. 6, 14, 1948; Jan. 13, 18, Feb. 7, 17 & 22, 1949

During erection on board vessel Oct. 28, Nov. 1, 1949; Mar. 23, May 17, June 16, 22, July 26, 1950. Total No. of visits 19

Is the approved plan of boiler forwarded herewith Yes

Is this boiler a duplicate of a previous case Yes If so, state vessel's name and report No. M.V. "BAHIA AGUIRRE"-Hfx. Rpt. 4b-No. 6110 M.V. "BAHIA BUEN SUCCESO" " " " " No. 6117

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c. This Waste Heat Donkey Boiler has been built under the supervision of the Society's Surveyors and installed on board the vessel in accordance with the Requirements of the Rules and the Approved Plans. (See also Tto. Rpt. 5c No. 1330). The safety valves have been adjusted under steam to pressure as tested above, and the boiler has been tested under working conditions and found satisfactory. The workmanship and materials are good, and it is recommended that this Waste Heat Donkey Boiler, in conjunction with the Main Machinery, is eligible, in our opinion, to be classed LMC 8,50.

Survey Fee (See Tto. Rpt. 5c - No. 1330) When applied for 19

Travelling Expenses (if any) £ When received 19

(Incl. in Hfx. Rpt. 4b- No. 6134)

FRI, 29 SEP 1950

Date

Committee's Minute See minute on J.C. Rpt.

Geo. Peddie & J. P. Laurie

Engineer Surveyors to Lloyd's Register of Shipping

Lloyd's Register

Foundation