

REPORT ON WATER TUBE BOILERS.

No. 17315

Received at London Office

15 NOV 1930

Date of writing Report

19

When handed in at Local Office

13/11

1930

Port of

Antwerp

No. in Survey held at Seraing and Hoboken Date, First Survey 13th December 1929 Last Survey 31st October 1930

Reg. Bk. on the Steel Twin S. Turbine Steamer "Prince Charles" (Number of Visits) Tons Gross Net

Master Built at Hoboken By whom built Chantier naval J. Cockerill When built 1930-10

Engines made at Seraing By whom made H. A. M. J. Cockerill When made 1930-10

Boilers made at Seraing By whom made H. A. M. J. Cockerill When made 1930

Registered Horse Power Owners Belgian Government Port belonging to Ostend

WATER TUBE BOILERS—MAIN, AUXILIARY, OR DONKEY.—Manufacturers of Steel O. C. Gille, Lons, Ingelmunster

(Letter for Record S) Date of Approval of plan 4-7-29 Number and Description of Type

of Boilers 6 Babcock-Wilcox Type Working Pressure 370 lb. Tested by Hydraulic Pressure to 605 lb. Date of Test 7-4-30

No. of Certificate 82 Can each boiler be worked separately yes Total Heating Surface of Boilers 5,940 sq. ft. Boiler 2,300 sq. ft. Boiler 2,740 sq. ft. 27,270 4540

Is forced draught fitted yes Area of fire grate (coal) in each Boiler fuel oil Total grate area of boilers in vessel including

Main and Auxiliary No. and type of burners (oil) in each boiler 4 Babcock burners No. and description of safety valves on

each boiler double spring loaded Area of each valve 3.85 sq. cm Pressure to which they are adjusted 370 lb.

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

Smallest distance between boilers or uptakes and bunkers or woodwork Height of Boiler Width and Length

Steam Drums:—Number in each boiler one Inside diameter 3'0" Material of plates steel Thickness 1 1/16" 1 5/16"

Range of Tensile Strength 28-32 tons Are drum shell plates welded or flanged no Description of riveting:—

Cir. seams D.R. Lap long. seams D.R. D.B. 2 1/2 Diameter of rivet holes in long. seams 3 1/32" Pitch of Rivets 3.7"

Lap of plate or width of butt straps 10 3/8" Thickness of straps 1/16" Percentage strength of long. joint:—Plate 73.8 Rivet 85.5

Diameter of tube holes in drum 4 3/4" Pitch of tube holes 7 1/2" Percentage strength of shell in way of tubes 84.3

If Drum has a flat side state method of staying Depth and thickness of girders at centre

(if fitted) Distance apart Number and pitch of stays in each Working pressure

by rules Steam Drum Heads or Ends:—Material steel Thickness 1 3/16" Radius or how stayed 3'0"

Size of Manhole or Handhole 15" x 11" Water Drums:—Number in each boiler one Inside Diameter 6" x 6"

Material of plates steel Thickness 3/4" Range of tensile strength 24-28 tons Are drum shell plates welded

or flanged Solid drawn Description of riveting:—Cir. seams long. seams Diameter of Rivet Holes in

long. seams Pitch of rivets Lap of plates or width of butt straps Thickness of straps

Percentage strength of long. joint:—Plate Rivet Diameter of tube holes in drum 4 3/4" Pitch of tube holes 7 1/2"

Percentage strength of drum shell in way of tubes 42.2 Water Drum Heads or Ends:—Material steel Thickness 3/4"

Radius or how stayed Flat Size of manhole or handhole Headers or Sections:—Number 24 Pairs of boiler

Material steel Thickness 1/2" Tested by Hydraulic Pressure to 605 lb. Material of Stays

Area at smallest part Area supported by each stay Working Pressure by Rules 506 lb. Tubes:—Diameter 4" x 1 1/16"

Thickness 4 1/2" 13 1/2" 17 1/2" 19 1/2" Number 1 1/2" 750 Steam Dome or Collector:—Description of Joint to Shell

Percentage strength of Joint Diameter Thickness of shell plates Material

Description of longitudinal joint Diameter of Rivet Holes Pitch of Rivets Working Pressure of shell

by Rules Crown or End Plates:—Material Thickness How stayed

SUPERHEATER. Type Babcock-W. Date of Approval of Plan 4-7-29 Tested by Hydraulic Pressure to 605 lb.

Date of Test 7-4-30 Is a safety valve fitted to each section of the superheater which can be shut off from the Boiler yes

Diameter of Safety Valve 2 1/4" Pressure to which each is adjusted 368 lb. Is easing gear fitted yes

Is a drain cock or valve fitted at lowest point of superheater yes Number, diameter, and thickness of tubes 110 of 1 1/2" x 8 1/2" S.C.

Spare Gear. Tubes 100-46 1/2 Gaskets or joints:—Manhole 24 Handhole 146 of 1 1/2" Handhole plates 32 for 136

2 Safety valve springs 4 tubes for superheater 2 for S.H.

6 furnace manholes 10 burners

The foregoing is a correct description,

SOCIETE ANONYME JOHN COCKERILL

Manufacturer.

CHIEF DU SERVICE (CONSTRUCTION) CHIEF DE SERVICE DE LA COMPTABILITE

Is the approved plan of boiler forwarded herewith yes

Total No. of visits 15

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

Special survey, and the materials have been tested by the Society's surveyors. The

materials and workmanship are good. The boilers satisfactorily fitted in the vessel

and afterwards tried under steam together with the superheater, also tested for

accumulation. The machinery of this vessel is in good condition, and eligible in my opinion

to have the record of S.D.M.C. put so in the Society's Register Book (fitted for oil fuel. flared joint)

Survey Fee ... £ When applied for, 19

Travelling Expenses (if any) £ When received, 19

see first entry Rept. mullif.

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned

FRI. 21 NOV 1930

See other J.E. Rpt

Ant 17315



© 2020

Lloyd's Register
Foundation

004556-004563-0089