

## REPORT ON WATER TUBE BOILERS.

No. 1306.

Date of writing Report 31st Oct. 1930 When handed in at Local Office

Received at London Office

12 NOV 1930

Port of Bremen

No. in

Survey held at

Oberhausen and Bremen

Date, First Survey

Dis. 3rd July

Last Survey

8th July

1930

Reg. Bk.

90836

on the

STEEL T.W.S.C. "HEINRICH V. RIEDEMANN"

(Number of Visits)

Gross

Net

Tons

12175

6974

Master

Built at

Vegward

By whom built

Kaiserliche Werft

When built

1930

Engines made at

Vegward

By whom made

Kaiserliche Werft

When made

1930

Boilers made at

Oberhausen

By whom made

Kaiserliche Werft

When made

1930

Registered Horse Power

Owners

Kaiserliche Werft

Port belonging to

Stamag

## WATER TUBE BOILERS—MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel

Mannesmann, Düsseldorf, Germany

(Letter for Record (5))

Date of Approval of plan

24th April 1930

of Boilers

Two Sectional Water Tube Boilers

Working Pressure

14 kg/cm<sup>2</sup>

Tested by Hydraulic Pressure to

24 kg/cm<sup>2</sup>

Date of Test

22.9.30

No. of Certificate

8072/73

Can each boiler be worked separately

Yes

Total Heating Surface of Boilers

192.5 m<sup>2</sup>

Is forced draught fitted

Yes

Area of fire grate (coal) in each Boiler

Yes

Total grate area of boilers in vessel including

Main and Auxiliary

No. and type of burners (oil) in each boiler

3 Dist. Pressure Burners

No. and description of safety valves on

each boiler

2 spring loaded

Area of each valve

5411 mm<sup>2</sup>

Pressure to which they are adjusted

14.1 kg/cm<sup>2</sup>

Are they fitted with easing gear

Yes

In case of donkey boilers state whether steam from main boilers can enter the donkey boiler

Yes

Smallest distance between boilers or uptakes and bunkers or woodwork

Yes

Height of Boiler

4825 mm

Width and Length

3050 x 3333 mm

Steam Drums:—Number in each boiler

1

Inside diameter

1065 mm

Material of plates

Steel

Thickness

21 mm

Range of Tensile Strength

44-53 kg/mm<sup>2</sup>

Are drum shell plates welded or flanged

No

Description of riveting:—

Cir. seams

long. seams

Diameter of rivet holes in long. seams

26 mm

Pitch of Rivets

126 mm

Lap of plate or width of butt straps

44-280 mm

Thickness of straps

21 mm

Percentage strength of long. joint:—Plate

79.3

Rivet

78.4

Diameter of tube holes in drum

103 mm

Pitch of tube holes

178 mm

If Drum has a flat side state method of staying

Yes

Depth and thickness of girders at centre

(if fitted)

Distance apart

Number and pitch of stays in each

Working pressure

by rules

14.7 kg/cm<sup>2</sup>

Steam Drum Heads or Ends:—Material

Steel

Size of Manhole or Handhole

300 x 400 mm

Water Drums:—Number in each boiler

1

Inside Diameter

152 mm

Material of plates

Steel

Thickness

19 mm

Range of tensile strength

41-50 kg/mm<sup>2</sup>

Are drum shell plates welded

or flanged

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

Pitch of tube holes

Percentage strength of drum shell in way of tubes

42

Water Drum Heads or Ends:—Material

Radius or how stayed

Size of manhole or handhole

Tested by Hydraulic Pressure to

43 kg/cm<sup>2</sup>

Material of Stays

Number

Headers or Sections:—Number

14

Area at smallest part

Area supported by each stay

Working Pressure by Rules

36.2 kg/cm<sup>2</sup>

Tubes:—Diameter

100 x 45 mm

Thickness

5/16 x 3 or 3/16 mm

Number

430 x 45

Steam Dome or Collector:—Description of Joint to Shell

Yes

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

UPPERHEATER. Type

Date of Approval of Plan

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

Diameter of Safety Valve

Pressure to which each is adjusted

Is easing gear fitted

Is a drain cock or valve fitted at lowest point of superheater

Number, diameter, and thickness of tubes

Spare Gear. Tubes

12 x 100 mm

Gaskets or joints:—Manhole

10

Handhole

Handhole plates

10

The foregoing is a correct description,

DEUTSCHE BABCOCK &amp; WILCOX DAMPFKESSEL-WERKE

AKTIEN-GESELLSCHAFT

Manufacturer.

Approved

24/4/30.

Total No. of visits

Dis. 5, Bremen 4.

Dates

During progress of

work in shops

Dis. July 3, 17, 23. Sep. 1, 8

of Survey

while

During erection on

board vessel

Dis. Sep. 20.

building

Dis. Oct. 3, 11, 23

## GENERAL REMARKS

(State quality of workmanship, opinions as to class, &amp;c.)

These boilers have been constructed under

special survey in accordance with the requirements of the Rules and the approved plan. The materials and

workmanship are good. They have been satisfactorily fitted on board examined under steam pressure of

4.1 kg/cm<sup>2</sup> (200 lb) and found tight. Thickness of adjoining washers:—port 63" starboard 72" port 72" star 70"

It is recommended that these boilers be eligible to be classed in the Register Book with the

notation of:—2 Water Tube D.B. 200 lbs.

Survey Fee ... £ 8 : 0 : 0 When applied for, 4/11 1930

Travelling Expenses (if any) £ 1 : 0 : 0 When received, 13.11.1930

E. H. C. Kamm

Engineer Surveyors to Lloyd's Register of Shipping.

Committee's Minute

TUE. 25 NOV 1930

Assigned

See other Bmn

Rpt 1306



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Foundation

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