Rpt. 5c.

REPORT ON WATER TUBE BOILERS.

No. 21017

Received at London Office 19 JAN 1934

Date of writing Report 5th Janr., 1934 When handed in at Local Office ..... 19 .... Port of Hamburg

No. in Reg. Bk. 41763 Survey held at Kiel Date, First Survey 2nd May, 1933 Last Survey 4th January, 1934 (Number of Visits 13) on the Steel Twin Sc. "Rodbodse" Tons Gross 7026·79 Net 4308·68

Master ..... Built at Kiel By whom built Deutsche Werke Kiel A.G. When built 1934

Engines made at Kiel By whom made Deutsche Werke Kiel A.G. When made 1934

Boilers made at Kiel By whom made Deutsche Werke Kiel A.G. When made 1934

~~Registered~~ Nominal Horse Power 1345 Owners Wilhelm Wilhelmsen Port belonging to Tönsberg

WATER TUBE BOILERS ~~MAIN, AUXILIARY, OR~~ **DONKEY.**—Manufacturers of Steel Vereinigte Stahlwerke A.G.

(Letter for Record S) Date of Approval of plan 24/4/33 **Number and Description or Type of Boilers** 1 Exhaust gas fired La Mont D.B. Working Pressure 100 lb Tested by Hydraulic Pressure to 200 lb Date of Test 15/8/33

No. of Certificate 577 Can each boiler be worked separately × **Total Heating Surface of Boilers** 60 m²

Is forced draught fitted no **Area of fire grate (coal) in each Boiler** exhaust gas fired Total grate area of boilers in vessel including Main and Auxiliary × No. and type of burners (oil) in each boiler —"— No and description of safety valves on each boiler 2 springs loaded Area of each valve 3180·8 mm² Pressure to which they are adjusted 100 lb

Are they fitted with easing gear Yes In case of donkey boilers state whether steam from ~~main~~ other donkey boilers can enter the donkey boiler no

Smallest distance between boilers or uptakes and bunkers or woodwork — Height of Boiler 3910 mm Width and Length ×

~~Steam Drums~~ Collector Header:—Number in each boiler 1 Inside diameter 90 mm Material of plates O.H. Steel Thickness 20.- mm

Range of Tensile Strength 44÷50 kg/mm² Are drum shell plates welded or flanged solid forged & bored Description of riveting:—

Cir. seams — long. seams — Diameter of rivet holes in long. seams — Pitch of Rivets —

Lap of plate or width of butt straps — Thickness of straps — Percentage strength of long. joint:—Plate — Rivet —

Diameter of tube holes in drum 32 mm Pitch of tube holes varying Percentage strength of shell in way of tubes —

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 — Thickness — Radius or how stayed —

Size of Manhole or Handhole — ~~Water Drums~~ Distributor Header:—Number in each boiler 1 Inside Diameter 80 mm

Material of plates O.H. Steel Thickness 20 mm Range of tensile strength 44÷50 kg/mm² Are drum shell plates welded or flanged solid forged & bored 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 32.- mm Pitch of tube holes varying

Percentage strength of drum shell in way of tubes — **Water Drum Heads or Ends:—Material** — Thickness —

Radius or how stayed — Size of manhole or handhole — **Headers or Sections:**—Number —

Material — Thickness — Tested by Hydraulic Pressure to — Material of Stays —

Area at smallest part — Area supported by each stay — Working Pressure by Rules — **Tubes:**—Diameter 32.- mm

Thickness 3.- mm Number coils **Steam ~~Dome or~~ Collector:**—Description of Joint to Shell —

Percentage strength of Joint — Diameter 600 mm Thickness of shell plates 7.- mm Material O.H. Steel

Description of longitudinal joint Cap joint Diameter of Rivet Holes 13·5 mm Pitch of Rivets 45·4 mm Working Pressure of shell by Rules 13·2 kg/mm² ~~Crown or~~ **End Plates:**—Material O.H. Steel Thickness 9 mm How stayed —

SUPERHEATER. 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 ..... Gaskets or joints:—Manhole ..... Handhole ..... Handhole plates .....

Deutsche Werke Kiel Aktiengesellschaft

The foregoing is a correct description,

..... Manufacturer.

Dates of Survey while building — During progress of work in shops: 2/5/33, 4-11-15/8/33, 12-29/9/33 — During erection on board vessel: 17-21-24-28/11/33, 1-27/12/33, 4/1/34

Is the approved plan of boiler forwarded herewith Yes, 24/4/33

Total No. of visits 13

GENERAL REMARKS (*State quality of workmanship, opinions as to class, &c.*)

This Donkey Boiler has been constructed under Special Survey in accordance with the approved plans and the requirements of the Rules. Materials and workmanship are of good quality and this D.B. is eligible in my opinion for notation in the Reg. Book with 100 lb pressure.

Safety valves washers:— 12·7 and 4·3 mm resp.

Survey Fee ... ... £ 4 : 6 : — When applied for, 16/1/34 19

Travelling Expenses (if any) £ — : — : — When received, ... 19

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute FRI. 26 JAN 1934 FRI. 27 APR 1934

Assigned See other Rpt Ham 21017 TUE. 3 JUL 1934

TUE. 16 OCT 1934

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