

REPORT ON BOILERS.

No. 5454

Received at London Office -9 NOV 1925

Date of writing Report 6 Nov 1925 When handed in at Local Office 1925 Port of Haarlem
 No. in Survey held at Caen Date, First Survey 11 March Last Survey 23 October 1925
 Book. Vendemiaire (Number of Visits 6) Gross Tons 1682 Net Tons 1342
 on the Caen
 Built at Caen By whom built Ch. Navals Francais Yard No. 37 When built 1925
 Engines made at Nantes By whom made Sanonyme des Ateliers et Ch. de la Loire Engine No. 423 When made 1920
 Boilers made at Haarlem By whom made Caillard & Co Boiler No. 1682 When made 1920
 Nominal Horse Power 193.189 Owners Constantes 2^e London Port belonging to Bardiff

MULTITUBULAR BOILERS—MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel (Letter for Record (5))
 Total Heating Surface of Boilers 301^m 80 = 3247^{ft} Is forced draught fitted no Coal or Oil fired coal
 No. and Description of Boilers 2 Multitubular boilers Working Pressure 13^{kg}
 Tested by hydraulic pressure to 23^{kg} Date of test 20-22 April No. of Certificate 1857 Can each boiler be worked separately yes
 Area of Firegrate in each Boiler 4^m 40 No. and Description of safety valves to each boiler 2 spring
 Area of each set of valves per boiler per Rule 65^{kg} 9^m 2 Pressure to which they are adjusted 13^{kg} Are they fitted with easing gear yes
 In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler no donkey
 Smallest distance between boilers or uptakes and bunkers on woodwork 200^m Is oil fuel carried in the double bottom under boilers no
 Smallest distance between shell of boiler and tank top plating 500^m Is the bottom of the boiler insulated no
 Largest internal dia. of boilers 4000^m Length 3200^m Shell plates: Material steel Tensile strength 40 to 48
 Thickness 31^m Are the shell plates welded or flanged L Description of riveting: circ. seams end. Double
 Long. seams Double Diameter of rivet holes in circ. seams 33^m Pitch of rivets 55^m and 107
 Percentage of strength of circ. end seams plate 69.1 Percentage of strength of circ. intermediate seam plate L
 Percentage of strength of longitudinal joint rivets 66.2 Working pressure of shell by Rules 13.6
 Thickness of butt straps outer 31 No. and Description of Furnaces in each Boiler 2 Corrugated
 Material steel Tensile strength 38 to 46 Smallest outside diameter 1250
 Length of plain part top 205 Thickness of plates crown 16 Description of longitudinal joint weld
 Dimensions of stiffening rings on furnace or c.c. bottom bottom 205 Working pressure of furnace by Rules 14^{kg}
 End plates in steam space: Material steel Tensile strength 40 to 48 Thickness 27.5 Pitch of stays 470 x 380
 How are stays secured Double nuts and rings inside and outside Working pressure by Rules 13.5
 Tube plates: Material front steel Tensile strength 38 to 46 Thickness 20
 Mean pitch of stay tubes in nests back steel Working pressure front 26^{kg}
 Girders to combustion chamber tops: Material steel Tensile strength 44 Depth and thickness of girder back 17^{kg}
 at centre 225^m 20^m Length as per Rule 724^m 5 Distance apart 190 No. and pitch of stays
 in each 3 Working pressure by Rules 22^{kg} Combustion chamber plates: Material steel
 Tensile strength 38 to 46 Thickness: Sides 20 Back 16.5 Top 15.5 Bottom 20
 Pitch of stays to ditto: Sides 190 x 190 Back 191.5 x 184 Top 190 x 190 Are stays fitted with nuts or riveted over nuts inside riveted outside
 Working pressure by Rules side 26^{kg} back 18^{kg} Front plate at bottom: Material steel Tensile strength 40 to 48
 Thickness 25 Lower back plate: Material steel Tensile strength 40 to 48 Thickness 25
 Pitch of stays at wide water space 3 stays 270^m 220 Are stays fitted with nuts or riveted over Nuts inside and outside and rings
 Working Pressure 29^{kg} Main stays: Material steel Tensile strength 40 to 48
 Diameter At body of stay, 74 No. of threads per inch 3^m 5 Area supported by each stay 380 x 470 = 178600^m 2
 Working pressure by Rules 13^{kg} 9 Screw stays: Material steel Tensile strength 40 to 48
 Diameter At turned off part, 46^m No. of threads per inch 3^m Area supported by each stay 181.5 x 184 = 33396^m 2

Working pressure by Rules 26.7 Are the stays drilled at the outer ends no Margin stays: Diameter { At turned off part, 40 7/8 or Over threads

No. of threads per inch 3 7/8 Area supported by each stay 190 x 190 = 36100 sq in Working pressure by Rules 18.6

Tubes: Material Iron External diameter { Plain 89 Stay 89 Thickness { 4 2.5 No. of threads per inch 2 7/8

Pitch of tubes 120 x 120 Working pressure by Rules 15 Manhole compensation: Size of opening

shell plate 350 x 450 Section of compensating ring 754 x 854 No. of rivets and diameter of rivet holes 2 rings of 18 rivets each

Outer row rivet pitch at ends 120 7/8 Depth of flange if manhole flanged L Steam Dome: Material L

Tensile strength L Thickness of shell L Description of longitudinal joint L

Diameter of rivet holes L Pitch of rivets L Percentage of strength of joint { Plate L Rivets L

Internal diameter L Working pressure by Rules L Thickness of crown L No. and diameter of stays L

Inner radius of crown L Working pressure by Rules L

How connected to shell L Size of doubling plate under dome L Diameter of rivet holes and pitch of rivets in outer row in dome connection to shell L

Type of Superheater L Manufacturers of { Tubes L Steel castings L

Number of elements L Material of tubes L Internal diameter and thickness of tubes L

Material of headers L Tensile strength L Thickness L Can the superheater be shut off and the boiler be worked separately L

Is a safety valve fitted to every part of the superheater which can be shut off from the boiler L

Area of each safety valve L Are the safety valves fitted with easing gear L Working pressure as per Rules L

Pressure to which the safety valves are adjusted L Hydraulic test pressure L

tubes L, castings L and after assembly in place L Are drain cocks or valves fitted to free the superheater from water where necessary L

Have all the requirements of Sections 14 to 23 inclusive for boilers been complied with L

The foregoing is a correct description,

H. Challengay

Manufacturer.

Dates of Survey { During progress of work in shops - L Are the approved plans of boiler and superheater forwarded herewith (If not state date of approval.) Paris 20 march 1926

while building { During erection on board vessel - 11 march 21 april 14 22 may 16 june 23 oct Total No. of visits 6

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

This boiler have not been surveyed during construction they have been examined internally and externally found in good order and in accordance with the approved plan. The erection on board has been surveyed the workmanship is good. In my opinion this boiler merit the favourable consideration of the Committee for being classed to Lloyd's Register of Shipping

Survey Fee On machinery report : When applied for, 192

Travelling Expenses (if any) £ : : When received, 192

J. Hamelen

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

FRI. 13 NOV 1925

FRI. 20 NOV 1925

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Lloyd's Register Foundation



Assigned

See Nav. 76 54 574

Port of

No. in Reg. Book

Owners Yard No.

DESCRIPT

Capacity of

Where is

Position of

Positions

4 star. 2nd

1 chartered

If fuses a

circu

If vessel is

Are the fu

Are all fu

are po

Are all su

Total num

Afore ca

B. Seren

C. Chartr

D. Engin

E. T. 6

2

2

If are ligh

Where ar

DESCRIPT

Main cable

Branch ca

Branch ca

Leads to lo

Cargo ligh

DESCRIPT

Under lea

vulcan

Joints in

Are all th

posit

Are there

How are