

REPORT ON WATER TUBE BOILERS.

No. 47531

Received at London Office

1 FEB 1928

of writing Report

191

When handed in at Local Office

30.1.1928

Port of

Glasgow

No. in

Survey held at

Glasgow

Date, First Survey

13.12.26

Last Survey

17 Jan. 1928

1928

g. Bk.

010.

on the

Swan L.S. Beauford

Built at

Glasgow

By whom built

Baird & Co. Ltd.

When built

1928

Engines made at

Wallsend

By whom made

Parrons Marine Steam Turbine Co. Ltd.

When made

1928

Boilers made at

Glasgow

By whom made

Yarrow & Co. (1927) Ltd.

When made

1928

Registered Horse Power

Owners

Canadian Pacific Steamships Ltd.

Port belonging to

London

WATER TUBE BOILERS—MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel

Steel Co. of Scotland

Letter for Record

S

Date of Approval of plan

5.8.26

Number and Description or Type

17.5.27: 4.6.27

Boilers

4 Yarrow water tube

Working Pressure

250 lbs

Tested by Hydraulic Pressure to

425 lbs

Date of Test

17.5.27: 4.6.27

of Certificate

17.5.27

Can each boiler be worked separately

Yes

Total Heating Surface of Boilers

12620 sq ft

forced draught fitted

Yes

Area of fire grate (coal) in each Boiler

80 sq ft

Total grate area of boilers in vessel including

main and Auxiliary

435.5 sq ft

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

Yes

No. and description of safety valves on

each boiler

2 direct spring high lift

Area of each valve

4.08 sq ft

Pressure to which they are adjusted

250 lbs

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

Will clear

Height of Boiler

22-10

Width and Length

20-0: 16-6

Steam Drums:—Number in each boiler

One

Inside diameter

50

Material of plates

S

Thickness

2/32

Range of Tensile Strength

28-35 Tons

Are drum shell plates welded or flanged

Yes

Description of riveting:—

long. seams

double

Diameter of rivet holes in long. seams

2 1/2

Pitch of Rivets

3 1/2

up of plate or width of butt straps

9

Thickness of straps

9/16

Percentage strength of long. joint:—Plate

45

Rivet

80.6

diameter of tube holes in drum

1 3/4 - 1 1/4

Pitch of tube holes

28.38: 18

Percentage strength of shell in way of tubes

48.1

Drum has a flat side state method of staying

Yes

Depth and thickness of girders at centre

fitted)

Yes

Distance apart

Yes

Number and pitch of stays in each

1 1/4

Working pressure

50

rules

280 lbs

Steam Drum Heads or Ends:—Material

S

Thickness

1 1/4

Radius or how stayed

50

Size of Manhole or Handhole

16x12

Water Drums:—Number in each boiler

3

Inside Diameter

23

Material of plates

S

Thickness

5/8

Range of tensile strength

28-35 Tons

Are drum shell plates welded

flanged

Yes

Description of riveting:—Cir. seams

double

long. seams

double

Diameter of Rivet Holes in

9/16

long. seams

13/16

Pitch of rivets

3 1/2

Lap of plates or width of butt straps

8 1/2

Thickness of straps

9/16

percentage strength of long. joint:—Plate

16.8

Rivet

43.5

Diameter of tube holes in drum

1 3/4: 1 1/4

Pitch of tube holes

28.38: 18

percentage strength of drum shell in way of tubes

40

Water Drum Heads or Ends:—Material

S

Thickness

3/4

radius or how stayed

2 1/2

Size of manhole or handhole

16x12

Headers or Sections:—Number

Material

Thickness

Tested by Hydraulic Pressure to

Material of Stays

Working Pressure by Rules

Tubes:—Diameter

153 @ 1 1/2 - 12 L.A.S.

area at smallest part

Thickness

Number

Steam Dome or Collector:—Description of Joint to Shell

Thickness of shell plates

Material

Working Pressure of shell

Pitch of Rivets

How stayed

percentage strength of Joint

Diameter

Description of longitudinal joint

Rules

Crown or End Plates:—Material

Thickness

How stayed

PERHEATER.

Type

Yarrow self

Date of Approval of Plan

12.10.26

Tested by Hydraulic Pressure to

425 lbs

Date of Test

17.5.27: 4.6.27

Is a safety valve fitted to each section of the superheater which can be shut off from the Boiler

Diameter of Safety Valve

Yes

Pressure to which each is adjusted

Yes

Is easing gear fitted

Yes

a drain cock or valve fitted at lowest point of superheater

Yes

Number, diameter, and thickness of tubes

pare Gear.

Tubes

2-1/4: 2-1/4

Gaskets or joints:—Manhole

Handhole

Handhole plates

Yes

Yes

Yes

GENERAL REMARKS

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

These Boilers have been built under special Survey and in accordance with the approved plans. The materials and workmanship are good. On completion they together with Superheater have been tested by hydraulic pressure and found tight. The Boilers have been efficiently secured in position on board.

Survey Fee

...

£ 54 : 11 : -

When applied for

31.1.28

Travelling Expenses (if any)

£

:

When received

31.2.28

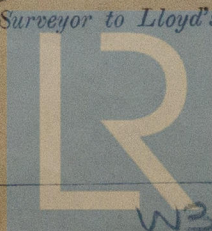
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

GLASGOW 31 JAN 1928

Assigned

See accompanying Preliminary Report.



Lloyd's Register of Shipping