

REPORT ON BOILERS.

No. 50179

Received at London Office 5 MAR 1930

Date of writing Report

19

When handed in at Local Office

3. 3.

1930

Port of

Glasgow

No. in
Reg. Book

Survey held at

Glasgow

Date, First Survey

13. 8. 29

Last Survey

28-2-

1930

on the

new steel ship "TALUNE".

(Number of Visits

56)

Gross

2742

Tons

Net

1506

Master

Built at

Glasgow By whom built Blythwood SBC

Yard No. 27

When built 1930

Engines made at

Glasgow

By whom made W W Henderson & Co. Ltd.

Engine No. 14F

When made 1930

Boilers made at

Glasgow

By whom made W W Henderson & Co. Ltd.

Boiler No. 14F

When made 1930

Nominal Horse Power

432

Owners

Union S. S. Coy of N. J. Ltd

Port belonging to

Hobart

MULTITUBULAR BOILERS—MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel

James Dunlop & Co. Ltd. Gütchhoffnungshütte A.G. Oberhausen

(Letter for Record (S) /)

Total Heating Surface of Boilers

6345 sq. ft.

Is forced draught fitted

yes

Coal or Oil fired

oil

No. and Description of Boilers

Two single ended

Working Pressure 200

Tested by hydraulic pressure to

350

Date of test

18-12-29

No. of Certificate

18555/18540

Can each boiler be worked separately

yes

Area of Firegrate in each Boiler

No. and Description of safety valves to each boiler

Buckhams "High Lift" Improved

Area of each set of valves per boiler

per Rule 11.10"

as fitted

11.88"

Pressure to which they are adjusted

205

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

1'-10"

Is oil fuel carried in the double bottom under boilers

yes

Smallest distance between shell of boiler and tank top plating

2'-0"

Is the bottom of the boiler insulated

yes

Largest internal dia. of boilers

16'-6"

Length

12'-3"

Shell plates: Material

steel

Tensile strength

28.32 tons

Thickness

1 1/2"

Are the shell plates welded or flanged

no

Description of riveting: circ. seams

end

DR

long. seams

DRS, TR

Diameter of rivet holes in

circ. seams

1 1/2"

long. seams

1 1/2"

Pitch of rivets

4.44"

10 9/8"

Percentage of strength of circ. end seams

plate

66.2

rivets

43.5

Percentage of strength of circ. intermediate seam

plate

rivets

Percentage of strength of longitudinal joint

plate

85.8

rivets

85.3

combined

88.8

Working pressure of shell by Rules

202

Thickness of butt straps

outer

1 1/8"

inner

1 1/4"

No. and Description of Furnaces in each Boiler

Four Deighton 4 ft

Material

steel

Tensile strength

26-30 tons

Smallest outside diameter

42.1875"

Length of plain part

top

bottom

Thickness of plates

crown

1 1/2"

bottom

1 3/4"

Description of longitudinal joint

welded

Dimensions of stiffening rings on furnace or c.c. bottom

✓

Working pressure of furnace by Rules

204

End plates in steam space: Material

steel

Tensile strength

28-32

E 18-10-29

Thickness

1 1/8"

Pitch of stays

17" x 14"

How are stays secured

WN

Working pressure by Rules

200

Tube plates: Material

front

steel

back

"

Tensile strength

28-32 tons

26-30 tons

Thickness

1"

1 1/16"

Mean pitch of stay tubes in nests

7 1/2"

Pitch across wide water spaces

13 1/2"

Working pressure

front

209

back

422

Girders to combustion chamber tops: Material

steel

Tensile strength

28-32 tons

Depth and thickness of girder

at centre

3 @ 8 3/4" x 1 1/8"

Length as per Rule

34.5"

Distance apart

8 1/2"

No. and pitch of stays

in each

3 @ 8 3/4"

Working pressure by Rules

211

Combustion chamber plates: Material

steel

Tensile strength

26-30 tons

Thickness: Sides

1 1/16"

Back

1 1/16"

Top

1 1/16"

Bottom

7/8"

Pitch of stays to ditto: Sides

8 3/4" x 8 3/4"

Back

8 3/4" x 8 3/4"

Top

8 3/4" x 8 3/4"

Are stays fitted with nuts or riveted over

nuts in ccs

Working pressure by Rules

216

Front plate at bottom: Material

steel

Tensile strength

28-32 tons

Thickness

1"

Lower back plate: Material

steel

Tensile strength

28-32 tons

Thickness

3/32"

Pitch of stays at wide water space

13 1/2"

Are stays fitted with nuts or riveted over

nuts

Working Pressure

224

Main stays: Material

steel

Tensile strength

28-32 tons

Diameter

At body of stay,

or

over threads

2 1/8"

No. of threads per inch

6

Area supported by each stay

294 sq. in.

Working pressure by Rules

207

Screw stays: Material

steel

Tensile strength

26-30 tons

Diameter

At turned off part,

or

over threads

1 3/4"

No. of threads per inch

9

Area supported by each stay

76.5 sq. in.

Working pressure by Rules 239 Are the stays drilled at the outer ends no Margin stays: Diameter { At turned off part, 17/8" / Over threads }
No. of threads per inch 9 Area supported by each stay 97.50" Working pressure by Rules 219
Tubes: Material iron External diameter { Plain 2 1/2" / Stay 2 3/4" } Thickness { 9/16" / 5/16" } No. of threads per inch 9
Pitch of tubes 3 3/4" x 3 3/4" Working pressure by Rules 230 Manhole compensation: Size of opening in shell plate 20" x 16" Section of compensating ring 10 7/8" x 1 1/2" No. of rivets and diameter of rivet holes 44 @ 1 1/2"
Outer row rivet pitch at ends 10 7/8" Depth of flange if manhole flanged 4 1/2" Steam Dome: Material none
Tensile strength Thickness of shell Description of longitudinal joint
Diameter of rivet holes Pitch of rivets Percentage of strength of joint { Plate Rivets }
Internal diameter Working pressure by Rules Thickness of crown No. and diameter of stays
Inner radius of crown Working pressure by Rules
How connected to shell Size of doubling plate under dome Diameter of rivet holes and pitch of rivets in outer row in dome connection to shell

Type of Superheater none Manufacturers of { Tubes Steel castings }
Number of elements Material of tubes Internal diameter and thickness of tubes
Material of headers Tensile strength Thickness Can the superheater be shut off and the boiler be worked separately
Is a safety valve fitted to every part of the superheater which can be shut off from the boiler
Area of each safety valve Are the safety valves fitted with easing gear Working pressure as per Rules
Pressure to which the safety valves are adjusted Hydraulic test pressure: tubes, castings and after assembly in place Are drain cocks or valves fitted to free the superheater from water where necessary
Have all the requirements of Sections 14 to 22 inclusive for boilers been complied with

FOR THE CORRECT DESCRIPTION, See Accompanying Machinery Report Manufacture. Director
Dates of Survey { During progress of work in shops - - } Are the approved plans of boiler and superheater forwarded herewith (If not state date of approval.)
while building { During erection on board vessel - - } Total No. of visits 55

Is this Boiler a duplicate of a previous case no If so, state Vessel's name and Report No. —

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

The materials and workmanship are good.
The boilers have been constructed under special survey in accordance with the Rules, satisfactorily fitted in the vessel and their safety valves adjusted under steam.

Survey Fee ... £ See inside Report When applied for, 19
Travelling Expenses (if any) £ : : When received, 19

S. C. Davis

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute GLASGOW 4 - MAR 1930

TUE. 17 JUN 1930

Assigned See Accompanying Machinery Report



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