

13 MAR 1927

REPORT ON BOILERS.

No. 46212

ADDED 1920

Received at London Office

Date of writing Report

192

When handed in at Local Office 24-12-1926

Port of Glasgow

No. in Surrey held at
Reg. Book.

Glasgow

Date, First Survey 2nd June 1926 Last Survey 23-12-1926

on the new steel S/S

"GOLETA"

(Number of Visits 52)

Gross 2473

Tons Net 1484.91

Faster

Built at Glasgow

By whom built Buntisland S.B. Co. Yard No. 134 When built 1927

Engines made at

Glasgow

By whom made W. Rowan & Co. Ltd

Engine No. 824 When made 1926

Donkey

Boilers made at

Glasgow

By whom made W. Rowan & Co. Ltd

Boiler No. 824 When made 1926

Nominal Horse Power

Owners La Tunisienne S.N. Co. Ltd.

Port belonging to Swansea

MULTITUBULAR BOILERS - MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel

Plates

Mannesmann-Röhrenwerke, Abteilung Schulz Knaut, Hückingen

Stays - Lanarkshire Steel Co

(Letter for Record (S) ✓)

Total Heating Surface of Boilers

684 sq feet

Is forced draught fitted no ✓

Coal or Oil fired coal ✓

No. and Description of Boilers

one single ended marine ✓

Working Pressure 120 ✓

Tested by hydraulic pressure to

230 ✓

Date of test 6-12-26

No. of Certificate 17245 ✓

Can each boiler be worked separately ✓

Area of Firegrate in each Boiler

27.5 sq ft

No. and Description of safety valves to each boiler

two direct spring ✓

Area of each set of valves per boiler

per Rule

as fitted

9.8 sq in

Pressure to which they are adjusted

120 lb

Are they fitted with easing gear

yes ✓

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

no ✓

Smallest distance between boilers or uptakes and bunkers or woodwork

✓

Is oil fuel carried in the double bottom under boilers

✓

Smallest distance between shell of boiler and tank top plating

2 ft ✓

Is the bottom of the boiler insulated

Largest internal dia. of boilers

9'-6" ✓

Length

9'-0" ✓

Shell plates: Material

steel ✓

Tensile strength 28-32 tons

Thickness

5/8" ✓

Are the shell plates welded or flanged

no ✓

Description of riveting: circ. seams

end

inter

Type of seams

T.R. lap ✓

Diameter of rivet holes in

circ. seams

long. seams

15" ✓

Pitch of rivets

2.83" ✓

Percentage of strength of circ. end seams

plate

66.9

rivets

64.2

Percentage of strength of circ. intermediate seam

plate

rivets

Percentage of strength of longitudinal joint

plate

77.2

rivets

88

combined

76.6

Working pressure of shell by Rules

120

Thickness of butt straps

outer

inner

No. and Description of Furnaces in each Boiler

Two plain ✓

Material

steel ✓

Tensile strength

26-30 tons ✓

Smallest outside diameter

32.625" ✓

Length of plain part

top

bottom

66"

Thickness of plates

crown

bottom

9/16" ✓

Description of longitudinal joint

welded ✓

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

32" x 32" x 1/2" ✓

Working pressure of furnace by Rules

157

Plates in steam space: Material

steel ✓

Tensile strength

26-30 tons ✓

Thickness

25/32" ✓

Pitch of stays 13" x 14" ✓

Stays secured

W.N. ✓

Working pressure by Rules

120

Boiler plates: Material

front

back

steel ✓

Tensile strength

26-30 tons ✓

Thickness

25/32" ✓

5/8" ✓

Pitch of stay tubes in nests

10 1/2" ✓

Pitch across wide water spaces

14" ✓

Working pressure

front

back

121

135

Boilers to combustion chamber tops: Material

steel ✓

Tensile strength

28-32 tons ✓

Depth and thickness of girder

Centre

2 @ 6 1/2" x 9 1/8" ✓

Length as per Rule

25.84" ✓

Distance apart

10 1/8" ✓

No. and pitch of stays

Each

2 @ 8 1/8" ✓

Working pressure by Rules

132

Combustion chamber plates: Material

steel ✓

Tensile strength

26-30 tons ✓

Thickness: Sides

9/16" ✓

Back

13/32" ✓

Top

9/16" ✓

Bottom

9/16" ✓

Pitch of stays to ditto: Sides

8 1/8" x 10 1/8" ✓

Back

9 x 8 1/2" ✓

Top

8 1/8" x 10 1/8" ✓

Are stays fitted with nuts or riveted over

nuts ✓

Working pressure by Rules

128

Front plate at bottom: Material

steel ✓

Tensile strength

26-30 tons ✓

Thickness

25/32" ✓

Lower back plate: Material

steel ✓

Tensile strength

26-30 tons ✓

Thickness

25/32" ✓

Pitch of stays at wide water space

13 1/2" x 8 3/4" ✓

Are stays fitted with nuts or riveted over

nuts ✓

Working Pressure

188

Main stays: Material

steel ✓

Tensile strength

28-32 tons ✓

Pitch of stays

At body of stay,

2" ✓

No. of threads per inch

6 ✓

Area supported by each stay

221 sq in

Pitch of stays

Over threads,

2 1/4" ✓

Screw stays: Material

steel ✓

Tensile strength

26-30 tons ✓

Working pressure by Rules

174

Pitch of stays

At turned off part,

or

Over threads,

1 1/8" ✓

No. of threads per inch

9 ✓

Area supported by each stay

82 sq in

Working pressure by Rules 123 Are the stays drilled at the outer ends *no* ✓ Margin stays: Diameter { At turned off part, or Over threads 1 1/2" ✓
 No. of threads per inch 9 ✓ Area supported by each stay 94.70" Working pressure by Rules 120
 Tubes: Material *Steel* ✓ External diameter { Plain 3 1/4" ✓ Stay 3 1/4" ✓ Thickness { 9 W 9 ✓ 4 1/4 5/16 ✓ No. of threads per inch 9 ✓
 Pitch of tubes 4 3/8" x 4 1/2" ✓ Working pressure by Rules 180 Manhole compensation: Size of opening in
 shell plate 15" x 19" ✓ Section of compensating ring 5 1/2" x 3/4" ✓ No. of rivets and diameter of rivet holes 36 @ 1 5/16" ✓
 Outer row rivet pitch at ends 4 1/2" ✓ Depth of flange if manhole flanged 3" ✓ 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 23 inclusive for boilers been complied with

The foregoing is a correct description
 for David Rowan & Co Ltd
 Arch. H. Guernsey Manufacture

Dates of Survey { During progress of 1925 See Accompanying Are the approved plans of boiler and superheater forwarded herewith
 while work in shops - - - Machinery Report (If not state date of approval.)
 building { During erection on board vessel - - - Total No. of visits 52

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.)
 The workmanship and materials are good
 The boiler has been constructed under special survey in accordance with the Rules
 The boiler has now been satisfactorily fitted and runned in the vessel
 steam raised and the safety valves adjusted to 120 lbs per sq. inch

Survey Fee ... £ 4 : 4 : When applied for 27.12.1926
 Travelling Expenses (if any) £ : : When received 29.12.1926

L. C. Davis. A. Morrison
 Engineer Surveyor to Lloyd's Register of Shipping

Committee's Minute GLASGOW 28 DEC 1926
 Assigned to accompany Mach. Report See Lth. 28 Dec 1926

