

REPORT ON BOILERS.

No. 50238

Received at London Office

10 MAY 1930

Date of writing Report

19

When handed in at Local Office

17.3.30

Port of

Glasgow

No. in Reg. Book

Survey held at

Glasgow

Date, First Survey

10.9.29

Last Survey

13.3.30

1930

(Number of Visits

38)

Gross 4250

Tons

Net 2634

40223 on the

new steel s/s "Eskelegate"

Master

Built at Buntisland

By whom built Buntisland SBC

Yard No. 160

When built 1930

Engines made at

Glasgow

By whom made David Rowan & Co Ltd

Engine No. 928

When made 1930

Boilers made at

Glasgow

By whom made David Rowan & Co Ltd

Boiler No. 928

When made 1930

Nominal Horse Power

349

Owners Turnbull Scott Shipping Co Ltd

Port belonging to London

MULTITUBULAR BOILERS MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel Wilkowitz & Co. Bau- und Eisenhütten-Gesellschaft in Wilkowitz (Letter for Record (S) ✓)

Total Heating Surface of Boilers

1165 sq ft

Is forced draught fitted

no

Coal or Oil fired coal

No. and Description of Boilers

one single ended

Working Pressure 200

Tested by hydraulic pressure to 350 Date of test 24-1-30 No. of Certificate 18596 Can each boiler be worked separately -

Area of Firegrate in each Boiler

36 sq ft

No. and Description of safety valves to each boiler

Two direct spring

Area of each set of valves per boiler

per Rule 6.77 sq ft

as fitted 7.95 sq ft

Pressure to which they are adjusted 205 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 8'-0"

Is oil fuel carried in the double bottom under boilers - no

Smallest distance between shell of boiler and tank top plating 2'-6"

Is the bottom of the boiler insulated yes

Largest internal dia. of boilers

11'-6"

Length 10'-6"

Shell plates: Material

steel

Tensile strength 29-33 tons

Thickness

1"

Are the shell plates welded or flanged

no

Description of riveting: circ. seams

end DR

long. seams

UBS. TR

Diameter of rivet holes in

circ. seams 1 1/16"

long. seams 1 1/16"

Pitch of rivets

2.85"

1 7/16"

Percentage of strength of circ. end seams

plate 62.7

rivets 49.1

Percentage of strength of circ. intermediate seam

plate

rivets

Percentage of strength of longitudinal joint

plate 85.95

rivets 86.6

combined 89.2

Working pressure of shell by Rules

200

Thickness of butt straps

outer 3/4"

inner 7/8"

No. and Description of Furnaces in each Boiler

Two Brighton 24" x 24"

Material

steel

Tensile strength

26-30 tons

Smallest outside diameter

3'-4 7/8"

Length of plain part

top

bottom

Thickness of plates

crown 9"

bottom 1 1/16"

Description of longitudinal joint

welded

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

Working pressure of furnace by Rules

201

End plates in steam space: Material

steel

Tensile strength

26-30 tons

Thickness

1 1/4"

Pitch of stays 22 5/8" x 14"

How are stays secured

WN

Working pressure by Rules

203

Tube plates: Material

front steel

back

Tensile strength

26-30 tons

Thickness

3/32"

25/32"

Mean pitch of stay tubes in nests

10.2"

Pitch across wide water spaces

14"

Working pressure

front 206

back 210

Girders to combustion chamber tops: Material

steel

Tensile strength

28-32 tons

Depth and thickness of girder

at centre

2 @ 6 3/4" x 1"

Length as per Rule

2'-4.03"

Distance apart

8 3/8"

No. and pitch of stays

in each

2 @ 8 1/8"

Working pressure by Rules

206

Combustion chamber plates: Material

steel

Tensile strength

26-30 tons

Thickness: Sides

1 1/16"

Back

1 1/16"

Top

1 1/16"

Bottom

1 1/16"

Pitch of stays to ditto: Sides

8 1/8" x 8 3/8"

Back

9 1/2" x 8"

Top

8 1/8" x 8 3/8"

Are stays fitted with nuts or riveted over

nuts

Working pressure by Rules

214

Front plate at bottom: Material

steel

Tensile strength

26-30 tons

Thickness

29/32"

Lower back plate: Material

steel

Tensile strength

26-30 tons

Thickness

1 3/16"

Pitch of stays at wide water space

13 1/4"

Are stays fitted with nuts or riveted over

nuts

Working Pressure

209

Main stays: Material

steel

Tensile strength

28-32 tons

Diameter

At body of stay, or over threads

3"

No. of threads per inch

6

Area supported by each stay

362 sq ft

Working pressure by Rules

222

Screw stays: Material

steel

Tensile strength

26-30 tons

Diameter

At turned off part, or over threads

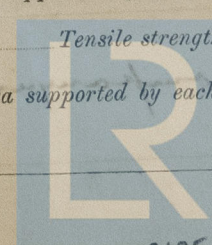
1 5/8"

No. of threads per inch

9

Area supported by each stay

76 sq ft



Working pressure by Rules 209 Are the stays drilled at the outer ends no Margin stays: Diameter { At turned off part. 13/4 & 1 1/8" or Over threads }
No. of threads per inch 9 Area supported by each stay 9181020" Working pressure by Rules 200 & 209
Tubes: Material Iron External diameter { Plain 3 1/4" Stay 3 1/4" Thickness { 8wg. 1/4. 5/16. 3/8" No. of threads per inch 9
Pitch of tubes 4 1/16" x 4 3/8" Working pressure by Rules 230 Manhole compensation: Size of opening in
shell plate 15 1/4" x 19 1/4" Section of compensating ring 8 x 1" No. of rivets and diameter of rivet holes 36 @ 1 1/8"
Outer row rivet pitch at ends 7 7/8" Depth of flange if manhole flanged 3" Steam Dome: Material none
Tensile strength Thickness of shell Description of longitudinal joint
Diameter of rivet holes 201 Pitch of rivets Percentage of strength of joint { Plate. Rivets
Internal diameter 85p 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

The foregoing is a correct description,
For David Rowan & Co. Ltd. Manufacturer.
Arch. H. Grierson.

Dates { During progress of work in shops - - See accompanying
of Survey while building { During erection on board vessel - - - Machinery Report
Are the approved plans of boiler and superheater forwarded herewith (If not state date of approval.)
Total No. of visits 38

Is this Boiler a duplicate of a previous case yes If so, state Vessel's name and Report No. Skeldergate. Gls Rpt. H-49991

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

The materials and workmanship are good.
The boiler has been constructed under special survey in accordance with the Rules.

This Boiler has been efficiently fitted on board & its safety
valves have been adjusted under steam.

John Houston.
Leith. 1/5/30

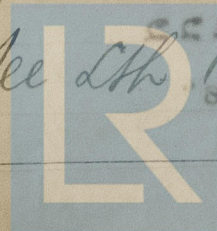
Survey Fee ... £ When applied for, 10
Travelling Expenses (if any) £ When received, 10

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

Committee's Minute GLASGOW 18 MAR 1930

Assigned See accompanying machinery report

TUE. 6 MAY 1930



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Foundation