

REPORT ON BOILERS.

No. 27422

WED. 17 FEB 1909

Received at London Office

Date of writing Report

19

When handed in at Local Office

13th Feb. 1909 Port of Glasgow

No. in Survey held at

Glasgow

Date, First Survey 24th Aug 1908Last Survey 8th Feb 1909

Reg. Book.

49 Sup on the

S.S. "Beothic"

(Number of Visits 39.)

Gross 1140.13.

Net 471.42.

Master J. C. Jackson

Built at Glasgow

By whom built

D. W. Henderson & Co. Ltd. When built 1909

Engines made at

Glasgow

By whom made

D. W. Henderson & Co. Ltd. when made 1909

Boilers made at

Glasgow

By whom made

D. W. Henderson & Co. Ltd. when made 1909

Registered Horse Power

Owners

Job Brothers & Co.

Port belonging to Newfoundland.

MULTITUBULAR BOILERS

~~MANUFACTURERS~~

AUXILIARY

~~OR DONKEY~~

Manufacturers of Steel Tom Beaudouin & Co. Ltd.

(Letter for record S ✓)

Total Heating Surface of Boilers 1803

Is forced draft fitted No ✓

No. and Description of

Boilers 1 single ended ✓

Working Pressure 180 ✓

Tested by hydraulic pressure to 360 lbs

Date of test 15/12/08

No. of Certificate 9637

Can each boiler be worked separately ✓

Area of fire grate in each boiler 40.22 sq ft

No. and Description of

safety valves to each boiler 1 pair direct spring

Area of each valve 7.95 sq in

Pressure to which they are adjusted 185 lbs

Are they fitted with easing gear Yes ✓

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

Smallest distance between boilers or uptakes and bunkers or woodwork

Mean dia. of boilers 12' 6"

Length 10' 0"

Material of shell plates Stul

Thickness 1 1/2"

Range of tensile strength 28/32

Are the shell plates welded or flanged No ✓

Descrip. of riveting: cir. seams

double lap long. seams

truth cut

Diameter of rivet holes in long. seams 1 1/2"

Pitch of rivets 7" ✓

Lap of plates or width of butt straps 15" ✓

Per centages of strength of longitudinal joint

rivets 86.1

Working pressure of shell by plate 86.2

rules 183 lbs

Size of manhole in shell 16" x 12" ✓

Size of compensating ring 28 1/2 32

No. and Description of Furnaces in each

boiler 2 Dighton

Material Stul

Outside diameter 48 3/8"

Length of plain part

top

Thickness of plates

crown 9"

bottom 16" ✓

Description of longitudinal joint

weld

No. of strengthening rings

Working pressure of furnace by the rules 183

Combustion chamber

plates: Material Stul

Thickness: Sides

2 1/2"

Back

2 1/2"

Top

2 1/2"

Bottom

7/8"

Pitch of stays to ditto: Sides 9" x 9" Back 9" x 9"

Top 9" x 9"

If stays are fitted with nuts or riveted heads

nuts ✓

Working pressure by rules 184

Material of stays Stul

Diameter at

smallest part 1.98

Area supported by each stay 81 sq in

Working pressure by rules 220

End plates in steam space: Material Stul

Thickness 1 1/2"

Pitch of stays 18 x 18

How are stays secured

2 nuts ✓

Working pressure by rules 184

Material of stays Stul

Diameter at smallest part 5.789

Area supported by each stay 322 sq in

Working pressure by rules 189

Material of Front plates at bottom Stul

Thickness 2 1/2"

Material of

Lower back plate Stul

Thickness 5 3/4"

Greatest pitch of stays 13 1/4"

Working pressure of plate by rules 184

Diameter of tubes 3" ✓

Pitch of tubes 4 3/8" x 4 1/4"

Material of tube plates Stul

Thickness: Front 1" ✓

Back 1 1/2"

Mean pitch of stays 8 3/8"

Pitch across wide

water spaces 14 1/2" ✓

Working pressures by rules 227 & 179

Girders to Chamber tops: Material Stul

Depth and thickness of

girder at centre 7 1/2" x 9 3/4"

Length as per rule 24 1/2" ✓

Distance apart 9" ✓

Number and pitch of Stays in each

Two 9" ✓

Working pressure by rules 214 1/2

Superheater or Steam chest: how connected to boiler

none

Can the superheater be shut off and the boiler worked

separately

Diameter

Length

Thickness of shell plates

Material

Description of longitudinal joint

Diam. of rivet

holes

Pitch of rivets

Working pressure of shell by rules

Diameter of flue

Material of flue plates

Thickness

If stiffened with rings

Distance between rings

Working pressure by rules

End plates: Thickness

How stayed

Working pressure of end plates

Area of safety valves to superheater

Are they fitted with easing gear

The foregoing is a correct description,

FOR DAVID & WILLIAM HENDERSON & CO., LIMITED

Manufacturer.

Is the approved plan of boiler forwarded herewith

Total No. of visits

Dates of Survey while building

During progress of work in shops - - -
During erection on board vessel - - -
See accompanying Machinery report

GENERAL REMARKS

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

This boiler has been built under survey. The materials and workmanship are of good description.

Survey Fee ... £

Travelling Expenses (if any) £

See accompanying machinery report

When applied for

When received

19.

19.

A. M. McLeod

Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute

GLASCOW 16 FEB. 1909

Assigned

See minute on accompanying report.

008711-008719-0132

Lloyd's Register Foundation