

REPORT ON BOILERS.

No. 50566

Received at London Office

17 SEP 1930

Date of writing Report

19

When handed in at Local Office

12.6.1930

Port of Glasgow

18 JUN 1930

No. in Survey held at Reg. Book.

Glasgow

Date, First Survey

17.1.30

Last Survey

10.6.1930

on the

CITE DE QUEBEC

(Number of Visits 21)

Gross 1259

Net 467

Master _____ Built at Old Kelpatriek By whom built Hapien & Miller Ltd Yard No. 275 When built 1930
 Engines made at Glasgow By whom made McKie & Baxter Ltd Engine No. 1260 When made 1930
 Boilers made at Glasgow By whom made D & W. Henderson & Co. Ltd Boiler No. 17F When made 1930
 Nominal Horse Power 277 Owners Lewis Ferry Co. Port belonging to Glasgow.

MULTITUBULAR BOILERS—MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel David White & Sons Ltd (Letter for Record 6)

Total Heating Surface of Boilers 44380 Is forced draught fitted yes Coal or Oil fired coal

No. and Description of Boilers Two single ended / 268 Working Pressure 185

Tested by hydraulic pressure to 328 Date of test 6-6-30, 10-6-30 of Certificate 18746 18749 Can each boiler be worked separately -

Area of Firegrate in each Boiler 57.750 No. and Description of safety valves to each boiler Two direct spring.

Area of each set of valves per boiler { per Rule 6.90 as fitted 7.070 Pressure to which they are adjusted See the 219/30 Are they fitted with easing gear -

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 - Is oil fuel carried in the double bottom under boilers -

Smallest distance between shell of boiler and tank top plating - Is the bottom of the boiler insulated -

Largest internal dia. of boilers 14'6" Length 11'0" Shell plates: Material steel Tensile strength 28.30 tons

Thickness 1 15/64 Are the shell plates welded or flanged no Description of riveting: circ. seams { end WR inter. -

long. seams WBS, TR Diameter of rivet holes in { circ. seams 1 1/4" long. seams 1 1/4" Pitch of rivets { 3.84" 9"

Percentage of strength of circ. end seams { plate 67.6 rivets 42.4 Percentage of strength of circ. intermediate seam { plate - rivets -

Percentage of strength of longitudinal joint { plate 86.2 rivets 85 combined 89.2 Working pressure of shell by Rules 186 instead of 185

Thickness of butt straps { outer 1 15/16" inner 1 1/16" No. and Description of Furnaces in each Boiler Three Morrison

Material steel Tensile strength 26-30 tons Smallest outside diameter 43.125"

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 189

End plates in steam space: Material steel Tensile strength 26-30 tons Thickness 1 13/64" Pitch of stays 18" x 18 1/8"

How are stays secured DN Working pressure by Rules 185

Tube plates: Material { front steel back " Tensile strength { 26-30 tons Thickness { 63" 64" 3/4"

Mean pitch of stay tubes in nests 10" Pitch across wide water spaces 13 3/4" Working pressure { front 191 back 200

Girders to combustion chamber tops: Material steel Tensile strength 28-32 tons Depth and thickness of girder

at centre 2 @ 7 1/4" x 3/4" Length as per Rule 29.595 Distance apart 8 1/4" No. and pitch of stays

in each 2 @ 9 1/4" Working pressure by Rules 185 Combustion chamber plates: Material steel

Tensile strength 26-30 Thickness: Sides 4 1/64" Back 2 1/32" Top 4 1/64" Bottom 1 13/16"

Pitch of stays to ditto: Sides 8 1/4" x 9 1/4" Back 9" x 9" Top 8 1/4" x 9 1/4" Are stays fitted with nuts or riveted over nuts

Working pressure by Rules 185 Front plate at bottom: Material steel Tensile strength 26-30 tons

Thickness 63" Lower back plate: Material steel Tensile strength 26-30 tons Thickness 5 3/64"

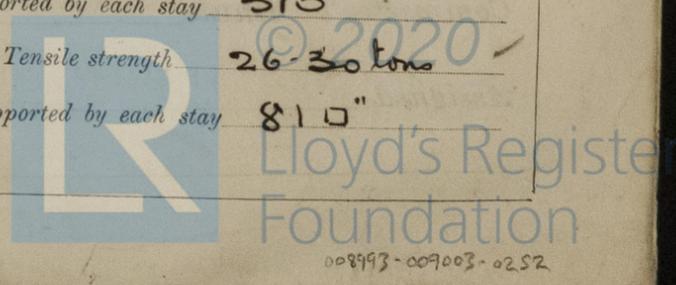
Pitch of stays at wide water space 14 1/2" x 9" Are stays fitted with nuts or riveted over nuts

Working Pressure 187 Main stays: Material steel Tensile strength 28-32 tons

Diameter { At body of stay, 3" No. of threads per inch 6 Area supported by each stay 310

Working pressure by Rules 216 Screw stays: Material steel Tensile strength 26-30 tons

Diameter { At turned off part, 1 7/8" No. of threads per inch 9 Area supported by each stay 810"



Working pressure by Rules **188** Are the stays drilled at the outer ends **no** Margin stays: Diameter { At turn d off part, or Over threads **2"** /

No. of threads per inch **9** Area supported by each stay **105.50"** Working pressure by Rules **234**

Tubes: Material **steel** External diameter { Plain **2 3/4"** / Stay **2 3/4"** Thickness { **3/8"** / **1/16"** No. of threads per inch **9**

Pitch of tubes **4" x 4"** Working pressure by Rules **215"** Manhole compensation: Size of opening in shell plate **20 1/4" x 16 1/4"** Section of compensating ring **9 3/4" x 1 15/64"** No. of rivets and diameter of rivet holes **44 @ 1 1/4"**

Outer row rivet pitch at ends **9"** Depth of flange if manhole flanged **3 1/8"** 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

The foregoing is a correct description,
FOR DAVID & WILSON & CO. LTD.
[Signature] Manufacturer. DIRECTOR.

Dates of Survey { During progress of work in shops - - **1930 Jan 17. 24. 29 Feb. 15. 19 Mar** Are the approved plans of boiler and superheater forwarded herewith (If not state date of approval.)

{ During erection on board vessel - - - **5. 12. 18. 26 Apr. 1. 15. 29 May 5. 8. 15** Total No. of visits **21**

21. 26. 29 June 5. 6. 10

Is this Boiler a duplicate of a previous case **yes** If so, state Vessel's name and Report No. **Vessel subject reported**

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.

The boilers will be fitted on board the vessel at Glasgow

a.c.
12/6/30.

[Handwritten notes and signatures in the remarks section]

Survey Fee ... £ **27 : 6** : ... When applied for, **16. 6. 1930**

Travelling Expenses (if any) £ ... When received, **4. 7. 1930**

[Signature]
 Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute **GLASGOW 17 JUN 1930**

Assigned **TRANSMIT TO LONDON**

See G.S. Rpt. No. 50721

GLASGOW 16 SEP 1930

Lloyd's Register Foundation

THE 28 OCT 1930