

REPORT ON BOILERS.

No. 68172

Received at London Office

Date of writing Report

8-3-1944

When handed in at Local Office

11.3.1944

Port of

GLASSGOW

No. in Survey held at

GLASSGOW

Reg. Book.

Date, First Survey

29.6.43

Last Survey

10.3.1944

(Number of Visits

72)

Gross

6595

Tons

Net

4391

on the

M.V. "MEGNA"

Built at

GLASSGOW

By whom built

CHAS. CONNELL & Co. Ld.

Yard No. 445

When built 1944

Engines made at

— Do —

By whom made

BARCLAY CURRIE & Co. Ld.

Engine No. EW139

When made 1944

Boilers made at

— Do —

By whom made

— Do —

Boiler No. EW139

When made 1944

Nominal Horse Power

449

Owners

JAMES NOURSE Ld.

Port belonging to LONDON

MULTITUBULAR BOILERS—MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel

Colvilles Ld.

(Letter for Record

S

Total Heating Surface of Boilers

1253 sq ft

{ 568 oil fired
685 gas fired

Is forced draught fitted

Yes

Coal or Oil fired

Oil

No. and Description of Boilers

Oil fired exhaust gas

Working Pressure

120 lb

Tested by hydraulic pressure to

230 lb

Date of test

26-11-43

No. of Certificate

21579

Can each boiler be worked separately

Area of Firegrate in each Boiler

No. and Description of safety valves to each boiler

One 2 1/4" I.H.L. Double

Area of each set of valves per boiler

{ per Rule
as fitted{ 6.86 sq ft
7.94 sq ft

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

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

Yes

Largest internal dia. of boilers

9'9"

Length

10'6"

Shell plates: Material

S

Tensile strength

29/30 tons

Thickness

9/16"

Are the shell plates welded or flanged

No

Description of riveting: circ. seams

{ end
inter.

2.841"

Long. seams

D.B.S. TR.

Diameter of rivet holes in

{ circ. seams
long. seams

3/4"

Pitch of rivets

5"

Percentage of strength of circ. end seams

{ plate
rivets{ 73.5%
43.6%

Percentage of strength of circ. intermediate seam

{ plate
rivets

Percentage of strength of longitudinal joint

{ plate
rivets{ 85%
116%
combined 93.2%

Thickness of butt straps

{ outer
inner{ 7/16"
9/16"

No. and Description of Furnaces in each Boiler

One Doughton

Material

S

Tensile strength

26/30 tons

Smallest outside diameter

37 1/4"

Length of plain part

{ top
bottom

Thickness of plates

{ crown
bottom

3/8"

Description of longitudinal joint

Welded

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

End plates in steam space: Material

S

Tensile strength

26/30 tons

Thickness

25/32"

Pitch of stays 14" x 16"

How are stays secured

Double nuts

Tube plates: Material

{ front
back{ S
S

Tensile strength

26/30 tons

Thickness

25/32"

1/16"

Mean pitch of stay tubes in nests

9 3/8"

Pitch across wide water spaces

13 1/4"

Girders to combustion chamber tops: Material

S

Tensile strength

28/32 tons

Depth and thickness of girder

at centre 2 @ 8" x 1 1/2"

Length as per Rule

29 23/32"

Distance apart

10 1/2"

No. and pitch of stays

in each

2 @ 9 1/2"

Combustion chamber plates: Material

S

Tensile strength

26/30 tons

Thickness: Sides

1 1/32"

Back

1 1/32"

Top

1 1/32"

Bottom

1 1/32"

Pitch of stays to ditto: Sides

9 1/2" x 10 1/2"

Back

9 1/2" x 10 1/2"

Top

9 1/2" x 10 1/2"

Are stays fitted with nuts or riveted over

Nuts

Front plate at bottom: Material

S.M. Steel

Tensile strength

26/30 tons

Thickness

26/32"

Lower back plate: Material

S

Tensile strength

26/30 tons

Thickness

25/32"

Pitch of stays at wide water space

13 1/4"

Are stays fitted with nuts or riveted over

Nuts

Main stays: Material

S

Tensile strength

28/32 tons

Diameter

{ At body of stay,
or
Over threads

1 7/8"

No. of threads per inch

6

Screw stays: Material

S

Tensile strength

26/30 tons

Diameter

{ At turned off part,
or
Over threads

1 1/2"

No. of threads per inch

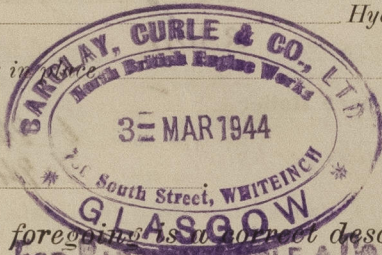
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Lloyd's Register

Foundation

Are the stays drilled at the outer ends No Margin stays: Diameter { At turned off part, 1 5/8" or Over threads }
No. of threads per inch 9
Tubes: Material IS External diameter { Plain 2 1/2 - 1 3/4" Stay 2 1/2" Thickness { 11 W 9 5/16" & 3/8" No. of threads per inch 9
Pitch of tubes 3 3/4" x 3 3/4" oil, 2 3/4" & 2 7/8" gas Manhole compensation: Size of opening in shell plate 20 x 16" Section of compensating ring 9 1/2" x 9 1/6" No. of rivets and diameter of rivet holes 44 @ 1 1/16"
Outer row rivet pitch at ends 7 1/2" Depth of flange if manhole flanged 3 1/4" Steam Dome: Material _____
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 _____ Thickness of crown _____ No. and diameter of stays _____ Inner radius of crown _____
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 _____ Manufacturers of { Tubes Steel forgings 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 _____
Area of each safety valve _____ Is a safety valve fitted to every part of the superheater which can be shut off from the boiler _____
Pressure to which the safety valves are adjusted _____ Are the safety valves fitted with easing gear _____
tubes _____ forgings and castings _____ and after assembly in _____ Hydraulic test pressure: _____
valves fitted to free the superheater from water where necessary _____ Are drain cocks or _____
Have all the requirements of Sections 14 to 22 inclusive for boilers been complied with _____



The foregoing is a correct description, FOR G. L. CURLE & CO., LTD. Manufacturer. Alexander Macmillan

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

Is this Boiler a duplicate of a previous case Yes If so, state Vessel's name and Report No. M/V HUGHAI GLASSOW RPT. N° 67373

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) This boiler has been built under special survey in accordance with the Rules and approved plans, and the materials and workmanship are good. It has been satisfactorily installed in the vessel, and the safety valves have been adjusted under steam to the working pressure

Survey Fee ... £ See Mach¹ report When applied for, 19
Travelling Expenses (if any) £ See Mach¹ report When received, 19

W. Russell
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute GLASGOW 14 MAR 1944

Assigned _____



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