

REPORT ON BOILERS.

No. 62642

JUL 31 1940

Received at London Office

5a.

Writing Report

19

When held at Local Office

27 7

1940

Port of GLASGOW

in Survey held at

Glasgow

Date, First Survey 1939 Oct. 3rd

Last Survey 27th July 1940

on the s/s

"MARIETTA. E"

(Number of Visits)

Gross Tons
Net

at Glasgow

By whom built Wm. Hamilton & Co. Ltd.

Yard No 439 When built 1940

es made at

Glasgow

By whom made David Rowan & Co. Ltd.

Engine No 1040 When made 1940

rs made at

do-

By whom made

do-

Boiler No 1040 When made 1940

nal Horse Power

520

Owners Counties Ship Management Co. Ltd.

Port belonging to London.

LTITUBULAR BOILERS - MAIN, AUXILIARY, OR DONKEY.

facturers of Steel

Colnillas, La.

Heating Surface of Boilers

5940

Is forced draught fitted Yes

(Letter for Record S)

Coal or Oil fired Oil

nd Description of Boilers

2 Single-ended

Working Pressure 225 lb.

by hydraulic pressure to

388 lb.

Date of test

27-3-40

No. of Certificate

20538

Can each boiler be worked separately Yes

of Firegrate in each Boiler

-

No. and Description of safety valves to each boiler

1-2 1/2" I.H.L. valve

of each set of valves per boiler

per Rule

7.730"

as fitted

9.80"

Pressure to which they are adjusted

225 lb.

Are they fitted with easing gear Yes

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

-

st distance between boilers

uptakes and bunkers

22"

Is oil fuel carried in the double bottom under boilers Yes

st distance between shell of boiler and tank top plating

2'-6"

Is the bottom of the boiler insulated Yes

Ex. External dia. of boilers

15'-9"

Length

12'-0"

Shell plates: Material

steel

Tensile strength

30/34 tons

ss 13 1/4"

Are the shell plates welded or flanged

No

Description of riveting: circ. seams

end

drift

ms DBS TR

Diameter of rivet holes in

circ. seams

3 1/16" F 1 3/8"

Pitch of rivets

B 4-332" F 3-425"

10 3/8"

age of strength of circ. end seams

plate

863.9 F 60

rivets

45.7 45.2

Percentage of strength of circ. intermediate seam

plate

84.94

rivets

88.7

age of strength of longitudinal joint

plate

84.94

rivets

88.7

combined

87.8

ss of butt straps

outer

1 1/8"

inner

1 1/4"

steel

No. and Description of Furnaces in each Boiler

3 Deighton

Tensile strength

26/30 tons

Smallest outside diameter

3'-10 7/16"

h of plain part

top

bottom

Thickness of plates

crow

23/32"

bottom

Description of longitudinal joint

welded

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

plates in steam space: Material

steel

Tensile strength

26/30 tons

Thickness

1 3/8"

Pitch of stays 19"x21 1/2"

are stays secured

drift nuts

plates: Material

front

steel

back

Tensile strength

26/30 tons

Thickness

15/16"

2 1/32"

pitch of stay tubes in nests

9.67"

Pitch across wide water spaces

14"

rs to combustion chamber tops: Material

steel

Tensile strength

28/32 tons

Depth and thickness of girder

tre 2 @ 9 1/4"x7/8"

Length as per Rule

2'-10 1/32"

Distance apart

W 8 7/8" C 7 1/8"

No. and pitch of stays

h 3 @ 8 1/4"

Combustion chamber plates: Material

steel

e strength 26/30 tons

Thickness: Sides

1 1/16"

Back

1 1/16"

Top

1 1/16"

Bottom

2 7/32"

of stays to ditto: Sides

8 1/4"x8 7/8"

Back

8"x8 1/2"

Top

8 1/4"x8 7/8"

Are stays fitted with nuts or riveted over

nuts

plate at bottom: Material

steel

Tensile strength

26/30 tons

ess 15/16"

Lower back plate: Material

steel

Tensile strength

26/30 tons

Thickness

53/64"

of stays at wide water space

13 1/2"

Are stays fitted with nuts or riveted over

nuts

stays: Material

steel

Tensile strength

28/32 tons

ter At body of stay,

3" + 3 1/4"

Over threads

No. of threads per inch

8

stays: Material

steel

Tensile strength

26/30 tons

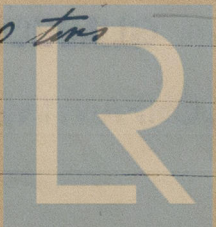
ter At turned off part,

1 5/8" + 1 3/4"

Over threads

No. of threads per inch

9



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192-0113

Are the stays drilled at the outer ends no Margin stays: Diameter { At turned off part, 1 7/8" or Over threads

No. of threads per inch 9

Tubes: Material Iron External diameter { Plain 3" Stay 3" Thickness { 8 WG 5/16" 3/8" 7/16" No. of threads per inch 9

Pitch of tubes 4 1/8" x 4 3/16" Manhole compensation: Size of shell plate 15 1/2" x 19 1/2" Section of compensating ring 10 1/2" x 1 3/16" No. of rivets and diameter of rivet holes 34 @ 1 9/16"

Outer row rivet pitch at ends 10 3/8" Depth of flange if manhole flanged 3" Steam Dome: Material Iron

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 dia stays Inner radius of crown

How connected to shell Size of doubling plate under dome Diameter of rivet holes of rivets in outer row in dome connection to shell

Type of Superheater Superheater Co. Ltd. 5 horizontal Manufacturers of { Tubes See Manufacturer Art. H-25 Steel forgings Copius Smith 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 the boiler be worked separately No Is a safety valve fitted to every part of the superheater which can be shut off from the boiler Yes

Area of each safety valve 1.76 sq" Are the safety valves fitted with easing gear Yes

Pressure to which the safety valves are adjusted 225 lb. Hydraulic test tubes forgings and castings and after assembly in place 450 lb. Are drain valves fitted to free the superheater from water where necessary Yes

Have all the requirements of Sections 14 to 22 inclusive for boilers been complied with Yes

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

Dates of Survey { During progress of work in shops - - } Are the approved plans of boiler and superheater forwarded herewith 24 (Do not state date of approval.)

while building { During erection on board vessel - - } SEE ACCOMPANYING MACHINERY REPORT Total No. of visits

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

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

Est
27/7/40

Survey Fee ... £ See Mech: Dept. When applied for, 19

Travelling Expenses (if any) £ See Mech: Dept. When received, 19

Committee's Minute GLASGOW 30 JUL 1940

Assigned SEE ACCOMPANYING MACHINERY REPORT.

A. J. Brown
Engineer Surveyor to Lloyd's Register of Ships



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