

REPORT ON BOILERS.

No. 20256.

Received at London Office... 19 MAY 1950

of writing Report... 15th 1947 19.50 When handed in at Local Office... D^o 19... Port of SOUTHAMPTON

in Survey held at SOUTHAMPTON Date, First Survey 9th FEB 47 Last Survey 14th MARCH 1950

Book. (Number of Visits... 3) Tons { Gross... 2152
Net... 834

on the T.S.S. 'ISLE OF GUERNSEY'

Built at DUMBARTON By whom built W^m DENNY BROS Yard No. - When built 1930

ines made at DUMBARTON By whom made W^m DENNY BROS. Engine No. - When made 1930

ers made at DUMBARTON By whom made W^m DENNY BROS Boiler No. - When made 1930

inal Horse Power 928 MW Owners BRITISH TRANSPORT COMMISSION belonging to SOUTHAMPTON

MULTITUBULAR BOILERS MAIN, ~~AUXILIARY~~, OR ~~DONKEY~~.

Manufacturers of Steel (Letter for Record...)

al Heating Surface of Boilers 10,350 ✓ Is forced draught fitted YES Coal or Oil fired OIL

and Description of Boilers 3 SCOTCH MARINE MULTITUBULAR ✓ Working Pressure 200 LBS

ted by hydraulic pressure to - Date of test - No. of Certificate - Can each boiler be worked separately YES

ea of Firegrate in each Boiler - No. and Description of safety valves to each boiler 2 - HIGH LIFT 3" DIAM

a of each set of valves per boiler { per Rule... APPROVED
as fitted... 14.125" Pressure to which they are adjusted 200 LBS Are they fitted with easing gear YES

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

allest distance between boilers or uptakes and bunkers or woodwork WELL CLEAR Is oil fuel carried in the double bottom under boilers NO

allest distance between shell of boiler and tank top plating 20" Is the bottom of the boiler insulated YES 30/34

gest internal dia. of boilers 17'6" ✓ Length 11'0" ✓ Shell plates: Material STEEL ✓ Tensile strength 28/32 LBS

ickness 1 1/2" ✓ Are the shell plates welded or flanged Description of riveting: circ. seams { end... DOUBLE RIVETTED
inter... TREBLE RIVETTED

g. seams TREBLE RIVETTED Diameter of rivet holes in { circ. seams... 19/16" ✓
long. seams... 19/16" ✓ Pitch of rivets { plate... 65.64"
rivets... 64.63"

centage of strength of circ. end seams { plate... 63.31
rivets... 46.02 Percentage of strength of circ. intermediate seam { plate... 65.64"
rivets... 64.63"

centage of strength of longitudinal joint { plate... 75.29
rivets... 86.4 Working pressure of shell by Rules Approved.

combined... 87.75

ickness of butt straps { outer... 19/32" ✓
inner... 19/32" ✓ No. and Description of Furnaces in each Boiler 4. MORRISON CORRUGATED

aterial STEEL Tensile strength 28/32 LBS 0" Smallest outside diameter 3'11 3/8"

length of plain part { top... Thickness of plates { crown... 11/16" ✓
bottom... 11/16" ✓ Description of longitudinal joint WELDED

ensions of stiffening rings on furnace or c.c. bottom Working pressure of furnace by Rules Approved.

ed plates in steam space: Material STEEL Tensile strength 28/32 LBS 0" Thickness 19/32" Pitch of stays 14" VERTICAL

are stays secured SCREWED THRO END PLATE NUTS INSIDE, NUT WORKING pressure by Rules As approved

be plates: Material { front... STEEL Tensile strength 28/32 LBS 0" Thickness 19/32" ✓
back... STEEL Tensile strength 28/32 LBS 0" Thickness 19/32" ✓

an pitch of stay tubes in nests MIN 9" MAX 8" Pitch across wide water spaces 1'2" Working pressure { front... Approved.
back... Approved.

orders to combustion chamber tops: Material STEEL Tensile strength 28/32 LBS 0" Depth and thickness of girder

centre WING BOWES 8 1/4" x 3 1/4" } 2 FITTED 2'10" ✓ Distance apart 8" PITCH ✓ No. and pitch of stays

each 3-7 1/4" ✓ Working pressure by Rules Approved. ✓ Combustion chamber plates: Material STEEL

nsile strength 28/32 LBS 0" ✓ Thickness: Sides 7/8" ✓ Back 2 1/2" ✓ Top 1 1/2" ✓ Bottom 1 1/2" ✓

ch of stays to ditto: Sides 7 3/8" ✓ Back 7 3/8" ✓ Top 8" x 7 3/8" ✓ Are stays fitted with nuts or riveted over YES

orking pressure by Rules Approved. Front plate at bottom: Material STEEL Tensile strength 28/32 LBS 0" Thickness 19/32" ✓

ickness 2 1/2" ✓ Lower back plate: Material STEEL Tensile strength 28/32 LBS 0" Thickness 19/32" ✓

ch of stays at wide water space 1'2" x 8 1/2" ✓ Are stays fitted with nuts or riveted over YES

orking pressure Approved. Main stays: Material STEEL Tensile strength 28/32 LBS 0" Thickness 19/32" ✓

iameter { At body of stay 2 7/8" ✓
Over threads FRONT 3 1/8" BACK 3 1/8" No. of threads per inch 9 ✓ Area supported by each stay Approved.

orking pressure by Rules Approved. Screw stays: Material STEEL Tensile strength 28/32 LBS 0" Thickness 19/32" ✓

iameter { At turned off part 1 7/8" ✓
Over threads No. of threads per inch 9 ✓ Area supported by each stay Approved.

Working pressure by Rules *Approved* Are the stays drilled at the outer ends *NO* Margin stays: Diameter *At turned off part* *1 3/8" x 2"*
No. of threads per inch *9* Area supported by each stay *Approved* Working pressure by Rules *Approved*
Tubes: Material *IRON* External diameter *3"* Thickness *8 LSG* No. of threads per inch *9*
Pitch of tubes *9" x 4"* Working pressure by Rules *Approved* Manhole compensation: Size of opening
shell plate *17" x 13"* Section of compensating ring *30 3/4" x 3 1/2" x 1 1/2"* No. of rivets and diameter of rivet holes *36 - 1 9/16"*
Outer row rivet pitch at ends *10 3/8"* Depth of flange if manhole flanged *3 1/2"* 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* *-*
Internal diameter *-* Working pressure by Rules *-* Thickness of crown *-* No. and diameter
stays *-* Inner radius of crown *-* Working pressure by Rules *-*
How connected to shell *-* Size of doubling plate under dome *-* Diameter of rivet holes and p
of rivets in outer row in dome connection to shell *-*

Type of Superheater *-* Manufacturers of *-* Tubes *-*
Number of elements *-* Material of tubes *-* Steel forgings *-*
Material of headers *-* Tensile strength *-* Steel castings *-*
Internal diameter and thickness of tubes *-*
Material of headers *-* Thickness *-* Can the superheater be shut off
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
Rules *-* Pressure to which the safety valves are adjusted *-* Hydraulic test press
tubes *-* forgings and castings *-* and after assembly in place *-* Are drain cocks
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 *YES*

The foregoing is a correct description,

Manufacture

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

Is this Boiler a duplicate of a previous case *YES* If so, state Vessel's name and Report No. *'ISLE OF JERSEY'*

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

*These boilers, which have not been constructed under official
Survey, are in accordance with the approved plans & Rule Requirements.
The materials & workmanship are good, & the boilers satisfactory
installed & examined under working conditions & safety valve only
under steam to 200 lbs.*

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

Robert W. Stonehouse
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute *TUES. 13 JUN 1950*

Assigned *-*