

REPORT ON BOILERS.

No. 24366

Received at London Office 12 APR 1951

Date of writing Report 26th MARCH 1951 When handed in at Local Office 27th MARCH 1951 Port of GREENOCK

No. in Survey held at GREENOCK Date, First Survey 29th AUGUST 1949 Last Survey 12th MARCH 1951

on the SING SC BRITISH PREMIER (Number of Visits.....) Tons Gross 7506.41 Net 4976.57

Master Built at PORT GLASGOW By whom built LITHGOWS L^o Yard No. 1052 When built 1951

Engines made at GREENOCK By whom made JOHN G. KINCAID & CO L^o Engine No. 1211 When made 1951

Boilers made at do By whom made do Boiler No. When made 1951

nominal Horse Power 625 Owners BRITISH TANKER CO L^o Port belonging to LONDON

MULTITUBULAR BOILERS MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel COLONIES L^o (Letter for Record S)

Total Heating Surface of Boilers 4138 = 2640 Is forced draught fitted yes Coal or Oil fired Oil fired

No. and Description of Boilers 2 Two cylindrical SE. Working Pressure 150 lbs

Tested by hydraulic pressure to 275 Date of test 8-8-50 No. of Certificate 2600 Can each boiler be worked separately yes

Area of Firegrate in each Boiler No. and Description of safety valves to each boiler One double opening 14L

Area of each set of valves per boiler per Rule 7.84 as fitted 7.96 Pressure to which they are adjusted 153 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 Briton on Tween deck Is the bottom of the boiler insulated yes

Largest internal dia. of boilers 13'-0" Length 11'-6" Shell plates: Material S Tensile strength 29/33 tons

Thickness 39/32 Are the shell plates welded or flanged No Description of riveting: circ. seams end DR inter 23/4/57

g. seams TRDBS Diameter of rivet holes in circ. seams 1 1/16 Pitch of rivets 3.158" 6.375"

Percentage of strength of circ. end seams plate 68.3 rivets 43.8 Percentage of strength of circ. intermediate seam plate 85.29 rivets 88.7

Percentage of strength of longitudinal joint plate 88.7 rivets 88.3 Working pressure of shell by Rules 155.6 lbs

Thickness of butt straps outer 11/16 inner 13/16 No. and Description of Furnaces in each Boiler Two Doughton corrugated

Material S Tensile strength 26/30 tons Smallest outside diameter 3'-7 1/16"

Length of plain part top bottom Thickness of plates crown 15/32 bottom 15/32 Description of longitudinal joint Weld.

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

Stays in steam space: Material S Tensile strength 26/30 tons Thickness 1/32 Pitch of stays 18 1/2" x 16 1/2"

Are stays secured DN Working pressure by Rules

Stays plates: Material S Tensile strength 26/30 tons Thickness 7/8 1/16

Pitch of stay tubes in nests 9.375 Pitch across wide water spaces 13.5 x 7 1/2 Working pressure front back

Stays to combustion chamber tops: Material S Tensile strength 29/33 tons Depth and thickness of girder

Centre 8 3/4" x 1 1/2" Length as per Rule 2'-10 3/32 Distance apart 9 1/2" No. and pitch of stays

Each 22 8 1/4" Working pressure by Rules Combustion chamber plates: Material S

Tensile strength 26/30 tons Thickness: Sides 21/32 Back 21/32 Top 21/32 Bottom 21/32

Pitch of stays to ditto: Sides 8 x 8 1/4 Back 8 x 8 1/4 Top 9 1/2 x 8 1/4 Are stays fitted with nuts or riveted over

Working pressure by Rules Front plate at bottom: Material S Tensile strength 26/30 tons

Thickness 7/8 Lower back plate: Material S Tensile strength 26/30 tons Thickness 13/32

Pitch of stays at wide water space 14 1/2" x 8 1/4 Are stays fitted with nuts or riveted over Nuts both ends

Working pressure Main stays: Material S Tensile strength 25/32 tons

meter At body of stay 2 3/8 No. of threads per inch 6 Area supported by each stay

Over threads

Working pressure by Rules Screw stays: Material S Tensile strength 26/30 tons

meter At turned off part 1 7/8 x 1/2 No. of threads per inch 9 Area supported by each stay

Over threads

Working pressure by Rules. Are the stays drilled at the outer ends *No* ✓ Margin stays: Diameter { At turned off part, ✓
or
Over threads..... *1 5/8* ✓
No. of threads per inch *9* ✓ Area supported by each stay..... Working pressure by Rules.....
Tubes: Material *S* External diameter { Plain *2 1/4* ✓
Stay *2 1/2* ✓ Thickness { *10 w.g.* ✓
1/4" 5/16" No. of threads per inch *9* ✓
Pitch of tubes *3 3/4" x 3 3/4" ✓* Working pressure by Rules..... Manhole compensation: Size of opening, *44 - 1 1/2"* ✓
shell plate *16 1/2" x 20 1/2"* Section of compensating ring *2' 9 1/2" x 2' 5 1/2" x 1 1/6"* No. of rivets and diameter of rivet holes *44 - 1 1/2"* ✓
Outer row rivet pitch at ends *7 1/2" ✓* Depth of flange if manhole flanged *M. Nut type door* 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..... 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
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 there a
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 a
Rules..... Pressure to which the safety valves are adjusted..... Hydraulic test pres
tubes..... forgings and castings..... and after assembly in place..... Are drain coo
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.....

For JOHN G. KINCAID & COY., LIMITED.

The foregoing is a correct description,

A. H. Humphreys
Chief Draughtsman.

Dates of Survey { During progress of
work in shops - - -
while building { During erection on
board vessel - - -

SEE MACHINERY REPORT

Are the approved plans of boiler and superheater forwarded herewith *26-2-19* ✓
(If not state date of approval.)

Total No. of visits.....

Is this Boiler a duplicate of a previous case *Yes*

If so, state Vessel's name and Report No. *BRITISH PEER GPN N° 24192*

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

These boilers have been constructed under Special survey in accordance with the Rules and approved plans. The materials & workmanship are sound & good. Their safety valves have been adjusted under steam for a working pressure of 150 lbs / sq in. For recommendations please see machinery report.

Survey Fee ... £
Travelling Expenses (if any) £

See machinery report

When applied for.....19.....

When received.....19.....

Charles H. Hunter

Engineer Surveyor to Lloyd's Register of Shipping

Committee's Minute

Assigned

GLASGOW

11 APR 1951



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