

REPORT ON BOILERS.

No. 23800

Received at London Office.....19 JAN 1949

Date of writing Report 12th JAN 1949 When handed in at Local Office 14th JAN 1949 Port of GREENOCKNo. in Reg. Book. Survey held at GREENOCK Date, First Survey 15th APR 1948 Last Survey 30th DECEMBER 1949

on the BRITISH PROGRESS (Number of Visits.....) Tons Gross..... Net.....

Master..... Built at GLASGOW By whom built BLYTHSWOOD S.B. Co Yard No. 89 When built 1948

Engines made at GREENOCK By whom made JOHN G. KINCAID & Co L^d Engine No. K202 When made 1948

Boilers made at do By whom made do Boiler No. K190 When made 1948

Nominal Horse Power 625 Owners BRITISH TANKER CO L^d Port belonging to

MULTITUBULAR BOILERS MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel Colvilles L^d (Letter for Record (S))Total Heating Surface of Boilers 4138^{ft} = 2 boilers Is forced draught fitted Yes ✓ Coal or Oil fired or E.M. GAS ✓

No. and Description of Boilers Two cylindrical SE 24-7-48 2490 Working Pressure 150 lbs ✓

Tested by hydraulic pressure to 275 lbs Date of test 6-8-48 No. of Certificate 2491 Can each boiler be worked separately Yes ✓

Area of Firegrate in each Boiler ✓ No. and Description of safety valves to each boiler ✓ IHL double spring x 2

Area of each set of valves per boiler { per Rule 7.84^{sq} ✓ as fitted 7.96^{sq} ✓ Pressure to which they are adjusted 153 lbs ✓ 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 Boilers 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 26/30 tons ✓

Thickness 29/32 ✓ Are the shell plates welded or flanged No ✓ Description of riveting: circ. seams { end DR ✓ inter ✓

long. seams T.P. DBS ✓ Diameter of rivet holes in { circ. seams 1 1/8 ✓ long. seams 1 1/8 ✓ 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 85.29 ✓ rivets 88.7 ✓ combined 88.3 ✓ Working pressure of shell by Rules 155.6 lbs ✓

Thickness of butt straps { outer 1/16 ✓ inner 1/16 ✓ No. and Description of Furnaces in each Boiler Two Dighton corrugated ✓

Material S Tensile strength 26/30 tons ✓ Smallest outside diameter 3'-7 1/8" ✓

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

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

How are stays secured DN ✓ Working pressure by Rules

Tube plates: Material { front S ✓ back S ✓ Tensile strength { 26/30 tons ✓ Thickness { 7/8 ✓ 1 1/16 ✓

Mean pitch of stay tubes in nests 9-375" ✓ Pitch across wide water spaces 13 1/2" ✓ Working pressure { front ✓ back ✓

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

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

in each 3 @ 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 NUTS INSIDE BUTT JOINT

Working pressure by Rules Front plate at bottom: Material S Tensile strength 26/30 tons ✓ Thickness 7/8 ✓

Pitch of stays at wide water space 13 1/2 x 8 1/4" ✓ Are stays fitted with nuts or riveted over Nuts each end

Working pressure Main stays: Material S Tensile strength 29/32 tons ✓

Diameter { At body of stay 2 3/8" ✓ No. of threads per inch 6 ✓ Area supported by each stay 26/30 tons ✓

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

Diameter { At turned off part 1 1/2 x 1 3/8" ✓ No. of threads per inch 9 ✓ Area supported by each stay

Working pressure by Rules..... Are the stays drilled at the outer ends. *No* ✓ Margin stays: Diameter ^{At turned off part,} *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 1/2"* ✓ Thickness { *10 w.g.* ✓ 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 in
shell plate *16 1/2" x 20 1/2"* ✓ Section of compensating ring *2' 9 1/2" x 2' 5 1/2" x 1 1/8"* No. of rivets and diameter of rivet holes *44 - 1 1/8"*
Outer row rivet pitch at ends *7 1/2"* ✓ Depth of flange if manhole flanged *McNeil 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.....
Internal diameter..... Working pressure by Rules..... Thickness of crown..... Rivets..... 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..... Manufacturers of { Tubes.....
Number of elements..... Material of tubes..... Steel forgings.....
Material of headers..... Tensile strength..... Steel castings..... Internal diameter and thickness of tubes.....
the boiler be worked separately..... Thickness..... Can the superheater be shut off and
Area of each safety valve..... Is a safety valve fitted to every part of the superheater which can be shut off from the boiler.....
Rules..... Are the safety valves fitted with easing gear..... Working pressure as per
tubes..... Pressure to which the safety valves are adjusted..... Hydraulic test pressure:
forgings and 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 JOHN G. KINCAID & CO. LIMITED.
J. Kincaid Manufacturer.
Chief Draughtsman.

Dates of Survey while building { During progress of work in shops - - } Are the approved plans of boiler and superheater forwarded herewith *20.12.47*
(If not state date of approval.)
During erection on board vessel - - } Total No. of visits.....
SEE MACHINERY REPORT

Is this Boiler a duplicate of a previous case *Yes* If so, state Vessel's name and Report No. *BRITISH COLUMBIA CRU FE N° 23770*

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. The 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) £
When applied for.....19.....
When received.....19.....

Charles H. Hunter
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute..... GLASGOW 18 JAN 1949

Assigned..... SEE ACCOMPANYING MACHINERY REPORT



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