

REPORT ON BOILERS.

No. 24192

Received at London Office

7 SEP 1950

Date of writing Report 26th AUG. 1950. When handed in at Local Office 30th AUG. 1950. Port of GREENOCKNo. in Reg. Book. Survey held at GREENOCK Date, First Survey 8th AUGUST 1949. Last Survey 15th AUGUST 1950

on the BRITISH PEER (Number of Visits 1) Tons Gross 86.61.19 Net 49.76.54

Master. Built at PORT GLASGOW By whom built LITHGOWS L^o Yard No. 1043 When built 1950Engines made at GREENOCK By whom made JOHN G. KINCAID & CO L^o Engine No. 1509 When made 1950

Boilers made at do By whom made do Boiler No. 1509 When made 1950

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

MULTITUBULAR BOILERS MAIN, AUXILIARY, OR DONKEY.

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

Total Heating Surface of Boilers 4138 = 2640 Is forced draught fitted Yes ✓ Coal or Oil fired or Exhaust gas

No. and Description of Boilers 4 No. SE. Cylindrical Working Pressure 150 lbs

Tested by hydraulic pressure to 275 ✓ Date of test 3/4/50 No. of Certificate 2584 Can each boiler be worked separately Yes ✓

Area of Firegrate in each Boiler No. and Description of safety valves to each boiler One double spring 1HL

Area of each set of valves per boiler per Rule 7.84 as fitted 7.96 ✓ 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 29/33 tons/in²

Thickness 29/32 ✓ Are the shell plates welded or flanged No ✓ Description of riveting: circ. seams end 29/32 inter 3/138 ✓

Long. seams TRDBS ✓ Diameter of rivet holes in circ. seams 15/16 ✓ Pitch of rivets 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 88.3 rivets 88.3 ✓ Working pressure of shell by Rules 155.6 lbs

Thickness of butt straps outer 1 1/16 ✓ inner 1 3/16 ✓ No. and Description of Furnaces in each Boiler Three Doughton 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 13/32 ✓ Description of longitudinal joint Weld ✓

Dimensions of stiffening rings on furnace or c.c. bottom None ✓ 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" ✓

Can pitch of stay tubes in nests 9.375" ✓ Pitch across wide water spaces 13.5" ✓ Working pressure front back

Orders to combustion chamber tops: Material Tensile strength 29/33 tons/in² ✓ 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 30 8 1/4" ✓ Working pressure by Rules Combustion chamber plates: Material S

Tensile strength 26/30 tons ✓ Thickness: Sides 3 1/32 ✓ Back 3 1/32 ✓ Top 3 1/32 ✓ Bottom 3 1/32 ✓

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 Sides, back - riveted inside. Nuts outside

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 23/32 ✓

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 29/32 tons ✓

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

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

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

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Working pressure by Rules..... Are the stays drilled at the outer ends..... No ✓ Margin stays: Diameter { At turned off part..... 1 3/8" or Over threads.....
No. of threads per inch..... 9 Area supported by each stay..... Working pressure by Rules.....
Tubes: Material..... S External diameter { Plan..... 2 1/2" Stay..... 2 1/2" Thickness { 10 w.g. ✓ 1/4" 9/16" 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 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 1/16" 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..... McNeill 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 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..... 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
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 casing gear..... Working pressure as per
Rules..... Pressure to which the safety valves are adjusted..... Hydraulic test pressure
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.....

For JOHN G. KINCAID & CO. LTD.
The foregoing is a correct description,

Chief Draughtsman.

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

Are the approved plans of boiler and superheater forwarded herewith..... 26-2-48 (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 Patriot CoK FEN 24072

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

This boiler has been constructed under Special survey in accordance with the Rules and approved plans. The materials & workmanship are sound & good. This Safety has been adjusted for a working pressure of 150 lbs / sq in.
For recommendation please see machinery report

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

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

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

Committee's Minute..... GLASGOW 6 SEP 1950

Assigned..... SEE ACCOMPANYING MACHINERY REPORT



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