

REPORT ON BOILERS.

No. 22688

Received at London Office

18 MAY 1944

Date of writing Report 11th MAY 1944 When handed in at Local Office 12th MAY 1944 Port of GREENOCK

No. in Survey held at GREENOCK Date, First Survey 22nd APRIL 1943 Last Survey 5th May 1944
 952 on the SINGLE SC MV. TREVIDER (Number of Visits \checkmark)
 Gross 7376
 Net 5733
 Built at Port Glasgow By whom built LITHGOWS LTD Yard No. 986 When built 1944
 Engines made at G By whom made HARLAND & WOLFF LTD Engine No. 8462/1 When made 1944
 Boilers made at GREENOCK By whom made JOHN G. KINCAID & CO LTD Boiler No. 4157 When made 1944
 Nominal Horse Power 490 Owners HAIN STEAMSHIP CO LTD Port belonging to

MULTITUBULAR BOILERS MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel Colvilles Ltd (Letter for Record S \checkmark)
 Total Heating Surface of Boilers 1800 \checkmark Is forced draught fitted Yes \checkmark Coal or Oil fired
 No. and Description of Boilers 1 Cylindrical Working Pressure 150 lb \checkmark
 Tested by hydraulic pressure to 275 \checkmark Date of test 2-8-43 No. of Certificate 2344 Can each boiler be worked separately Yes \checkmark
 Area of Firegrate in each Boiler 6.8 \checkmark No. and Description of safety valves to each boiler 2 1/4" double opening 14L \checkmark
 Area of each set of valves per boiler (per Rule) 7.96 \checkmark Pressure to which they are adjusted 150 lb Are they fitted with easing gear Yes \checkmark
 In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler \checkmark
 Smallest distance between boilers or uptakes and bunkers or woodwork 12" Is oil fuel carried in the double bottom under boilers Yes \checkmark
 Smallest distance between shell of boiler and tank top plating 2' 8" \checkmark Is the bottom of the boiler insulated Yes \checkmark
 Largest internal dia. of boilers 12' 11 1/8" \checkmark Length 11' 6" \checkmark Shell plates: Material S Tensile strength 29/33 ton \checkmark
 Thickness 7/8" \checkmark Are the shell plates welded or flanged No Description of riveting: circ. seams (end 29/33 ton \checkmark inter. \checkmark)
 Long. seams TR. OBS. Diameter of rivet holes in (circ. seams 15/16" \checkmark long. seams 15/16" \checkmark) Pitch of rivets (2.9" \checkmark 6.75" \checkmark)
 Percentage of strength of circ. end seams (plate 67.7 \checkmark rivets 43.2 \checkmark) Percentage of strength of circ. intermediate seam (plate \checkmark rivets \checkmark)
 Percentage of strength of longitudinal joint (plate 86.1 \checkmark rivets 86.6 \checkmark combined 89.6 \checkmark)
 Thickness of butt straps (outer 2 1/32" \checkmark inner 25/32" \checkmark) No. and Description of Furnaces in each Boiler Three Doughton corrugated \checkmark
 Material S Tensile strength 26/30 ton \checkmark Smallest outside diameter 3' 1 13/16" \checkmark
 Length of plain part (top \checkmark bottom \checkmark) Thickness of plates (crown 13/32" \checkmark bottom 13/32" \checkmark) Description of longitudinal joint Weld \checkmark
 Dimensions of stiffening rings on furnace or c.c. bottom \checkmark
 End plates in steam space: Material S Tensile strength 26/30 ton Thickness 1 1/32" Pitch of stays 20" x 20" end row \checkmark
 How are stays secured DN 2 loose washers \checkmark
 Tube plates: Material (front S \checkmark back S \checkmark) Tensile strength 26/30 ton Thickness (25/32" \checkmark 23/32" \checkmark)
 Mean pitch of stay tubes in nests 9.81" \checkmark Pitch across wide water spaces 14" \checkmark
 Girders to combustion chamber tops: Material S Tensile strength 29/33 ton \checkmark Depth and thickness of girder
 At centre 8 1/4" x 1 1/2" \checkmark Length as per Rule 2' 7 2/32" \checkmark Distance apart 10 1/2" \checkmark No. and pitch of stays
 In each Three @ 7 3/4" \checkmark Combustion chamber plates: Material S \checkmark
 Tensile strength 26/30 ton \checkmark Thickness: Sides 5/8" \checkmark Back 5/8" \checkmark Top 5/8" \checkmark Bottom 5/8" \checkmark
 Pitch of stays to ditto: Sides 10" x 8 1/2" \checkmark Back 10" x 8 1/2" \checkmark Top 10 1/2" x 7 3/4" \checkmark Are stays fitted with nuts or riveted over Nuts on fire side \checkmark
 Front plate at bottom: Material S Tensile strength 26/30 ton \checkmark
 Thickness 25/32" \checkmark Lower back plate: Material S Tensile strength 26/30 ton Thickness 13/16" \checkmark
 Pitch of stays at wide water space 15" x 8 1/2" \checkmark Are stays fitted with nuts or riveted over Nuts \checkmark
 Main stays: Material S Tensile strength 28/32 ton \checkmark
 Diameter (At body of stay, 3 3/8" \checkmark or 3 5/8" \checkmark Over threads) No. of threads per inch 6 \checkmark
 Screw stays: Material S Tensile strength 26/30 ton \checkmark
 Diameter (At turned off part, 15/8" \checkmark or 1 1/2" \checkmark Over threads) No. of threads per inch 9 \checkmark

Are the stays drilled at the outer ends No Margin stays: Diameter { At turned off part, 1 3/4 or Over threads 1 3/4 }
No. of threads per inch 9
Tubes: Material Lap welded iron External diameter { Plain 3" Stay 3" } Thickness { 9/16 } No. of threads per inch 9
Pitch of tubes 4 1/4" x 4 3/16" Manhole compensation: Size of opening in shell plate 19 1/2" x 15 1/2" Section of compensating ring 15" x 1 3/16" No. of rivets and diameter of rivet holes 38 - 1 5/16"
Outer row rivet pitch at ends 7" Depth of flange if manhole flanged ✓ 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 _____ Thickness of crown _____ No. and diameter of stays _____ Inner radius of crown _____
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 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 _____
Pressure to which the safety valves are adjusted _____ Hydraulic test pressure: tubes _____ 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.
W. G. Kincaid Director. Manufacturer.

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 (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. M. J. TREUANIION CRK of IN 23560

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

This boiler has been constructed in accordance with the Rules & approved plans. The materials & workmanship are sound & good. It has been effectively installed in the vessel and its safety valves adjusted under steam to safe working pressure. For recommendations please see machinery report.

Survey Fee £
Travelling Expenses (if any) £

When applied for, 19
When received, 19

See machinery report.

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

Committee's Minute GLASGOW 16 MAY 1944

Assigned



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