

REPORT ON BOILERS.

No. 49847

Received at London Office

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Writing Report... 24.1.1953 When handed in at Local Office... 28.1.1953 Port of... GLASGOW
 Survey held at... GLASGOW Date, First Survey... 29.2.52 Last Survey... 23.1.1953
 on the... SS. "EDDYCREEK" (Number of Visits... 21) Gross... Tons Net...
 Refused - Glasgow By whom built... Messrs. L. & C. Ltd. Yard No. 1124 When built...
 made at... By whom made... Engine No. When made...
 made at... Glasgow By whom made... Messrs. David Raven & Co. Ltd. Boiler No. B569 When made 1953-1.
 Horse Power... Owners... Port belonging to...

TUBULAR BOILERS—MAIN, AUXILIARY, OR DONKEY.

Structures of Steel... Colvilles Ltd. (Letter for Record... S.)
 Heating Surface of Boilers... 7520 sq. ft. Of Superheaters...
 Register Book... 7520 sq. ft. Is forced draught fitted... Yes Coal or Oil fired... Oil fired
 Description of Boilers... 425 Single Ended Multitubular Cylindrical Working Pressure... 250 lbs/sq. in.
 Hydraulic pressure to... 425 lbs/sq. in. Date of test... 15.12.52 No. of Certificate... 23780 Can each boiler be worked separately... yes
 Firegrate in each Boiler... No. and Description of safety valves to each boiler... 2 @ 2 1/2 Imp High Lift
 each set of valves per boiler... per Rule... 3.87 as fitted... 9.81A Pressure to which they are adjusted... 250 lbs Are they fitted with easing gear... yes
 of donkey boilers, state whether steam from main boilers can enter the donkey boiler...
 distance between boilers or uptakes and bunkers or woodwork... 2'-6" Is oil fuel carried in the double bottom under boilers... no
 distance between shell of boiler and tank top plating... 9" Is the bottom of the boiler insulated... yes
 internal dia. of boilers... 16'-3" Length... 12'-3" Shell plates: Material... Steel Tensile strength... 32-36 tons/sq. in.
 welded, state name of welding Firm... Have all the requirements of the Rules for Class I vessels...
 supplied with... Thickness... 1 1/2" Are the shell plates welded or flanged... No Description of riveting: circ. seams... end... D.R. Lap. inter...
 T.R.D.B.S. Diameter of rivet holes in... circ. seams... Front 1 1/8" Back 1 1/4" long seams... 1 1/4" Pitch of rivets... Front 3.7554" Back 4.8204" 11 5/16"
 of strength of circ. end seams... plate... Front 58.37 Back 63.69 rivets... 45.16 44.15 Percentage of strength of circ. intermediate seam... plate... rivets...
 of strength of longitudinal joint... plate... 84.55 rivets... 88.18 combined... 86.71
 ss of butt straps... outer... 1 1/2" inner... 1 3/8" No. and Description of Furnaces in each Boiler... 3 - "Deighton" Corrugated
 Steel Tensile strength... 26-30 tons/sq. in. Smallest outside diameter... 3'-11 3/8"
 of plain part... top... Thickness of plates... 1 1/8" Description of longitudinal joint... Welded
 ons of stiffening rings on furnace or c.c. bottom...
 tes in steam space: Material... Steel Tensile strength... 26-30 tons/sq. in. Thickness... 1 7/16" Pitch of stays... 20 1/2" x 18"
 stays secured... Double nuts.
 ates: Material... front... Steel back... Steel Tensile strength... 26-30 tons/sq. in. Thickness... 15/16" 25/32"
 tech of stay tubes in nests... 9.25" Pitch across wide water spaces... 13 1/2"
 to combustion chamber tops: Material... Steel Tensile strength... 28-32 tons/sq. in. Depth and thickness of girder...
 10 1/2" x 1 1/8" (244) Length as per Rule... 3'-0 1/2" Distance apart... 9" (wings) 8 1/2" (centre) No. and pitch of stays...
 3 - 8 3/4" Combustion chamber plates: Material... Steel
 trength... 26-30 tons/sq. in. Thickness: Sides... 3/4" Back... 23/32" Top... 3/4" Bottom... 1"
 stays to ditto: Sides... 9" x 8 3/4" Back... 9" x 8" Top... 9" x 8 3/4" Are stays fitted with nuts or riveted over... Nuts.
 ate at bottom: Material... Steel Tensile strength... 26-30 tons/sq. in.
 15/16" Lower back plate: Material... Steel Tensile strength... 26-30 tons/sq. in. Thickness... 57/64"
 stays at wide water space... 13 3/4" x 8" Are stays fitted with nuts or riveted over... Nuts.
 ys: Material... Steel Tensile strength... 28-32 tons/sq. in.
 (At body of stay... 3 1/4" 2 1/4" No. of threads per inch... 6.
 (Over threads... 3 1/2" 2 1/2"
 stays: Material... Steel Tensile strength... 26-30 tons/sq. in.
 (At turned off part... 1 3/4" 1 1/8" 2" 2 1/4" No. of threads per inch... 9.
 (Over threads... 1 3/4" 1 1/8" 2" 2 1/4"

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Are the stays drilled at the outer ends no. Margin stays: Diameter At turned off part, 2" or Over threads, 2 1/4" (4pm)
No. of threads per inch 9.
Tubes: Material Steel. External diameter Plain 2 1/2" / Stay 2 1/2". Thickness 8.47 / 3 1/2" 4 7/16". No. of threads per inch 9.
Pitch of tubes 3 3/4" & 3 5/8". Manhole compensation: Size of shell plate 20" x 16". Section of compensating ring 24" x 1 5/8". No. of rivets and diameter of rivet holes 36 - 1 3/4" dia.
Outer row rivet pitch at ends 1 1/8". Depth of flange if manhole flanged 3". 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 di stays —. Inner radius of crown —.
How connected to shell —. Size of doubling plate under dome —. Diameter of rivet holes of rivets in outer row in dome connection to shell —.

Type of Superheater none. 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 sh 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 tubes —. forgings and castings —. and after assembly in place —. Are drai 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.

Dates of Survey while building { During progress of (1952) Feb. 27, Mar. 31, Apr. 3-30, May 19, Aug. 21 are the approved plans of boiler and superheater forwarded herewith no.
work in shops - - Sep. 3, 26, Oct. 2, 22, 28, Nov. 18, 24, Dec. 1, 9, 13.
(If not state date of approval.)
During erection on board vessel - - 19.26 (1953) Jan. 6, 21, 23. Total No. of visits 21.

Is this Boiler a duplicate of a previous case Yes. If so, state Vessel's name and Report No. SS. "EDDYCLIFF".

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) The two boilers have been constructed under

Special Survey in accordance with the Rules and the approved plan. Materials and workmanship have
found good.

The boilers have been despatched for installation aboard the vessel and are eligible, in my opinion, to
be classed in the Register Book with the main machinery, when they have been efficiently installed in the vessel.

The boilers have been installed on board SS. "EDDYCREEK", tested under
full working conditions and found satisfactory.

The safety valves have been adjusted under steam and a satisfactory
accumulation test carried out.

Survey Fee ... £ 84 : - : -
Travelling Expenses (if any) £ : : -

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

Committee's Minute

GLASGOW 10 FEB 1953

Assigned Deferred for completion

Abampbell & Co.
Engineer Surveyor to Lloyd's Register of Shipping

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Foundation